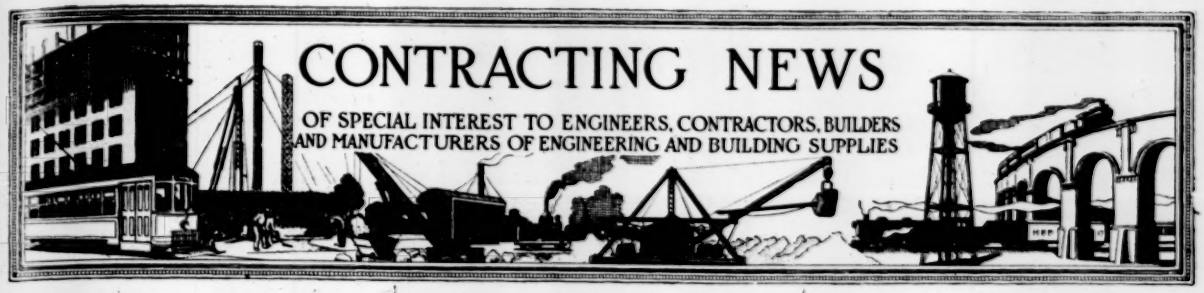
CONTRACTING NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

Proposals

For Proposals Advertised See Pages 50 to 56 Inclusive

WATER-WORKS

Bids Close		See Eng. News-Record
June 23.	Wickenburg, Ariz.	June 7
June 26.	Livingston, Mont. Adv. June 7 and 14.	June 14
June 27.	Pointe Claire, Que.	June 21
July 1.	Leeds, N. D.	June 7
July 1.	Fessenden, N. D.	June 7
July 1.	Strathroy, Ont.	June 21
July 2.	Hazen, N. D.	June 14
July 2.	Farmington, Ill.	June 21
July 2.	Towner, N. S.	June 21
July 2.	Augusta, Kan.	June 21
July 2.	East Liverpool, O. Adv. June 21.	June 21
July 3.	Chardon, O.	June 14
July 6.	Winchester, Ky.	June 21
July 10.	Duluth, Minn.	June 14
July 10.	New York, N. Y. Adv. June 14.	June 21
July 17.	New York, N. Y. Adv. June 7 to 21.	June 14

SEWERS

June 25.	Gary, Ind.	June 14
June 25.	St. Paul, Minn.	June 21
June 25.	Syracuse, N. Y.	June 21
June 25.	Anamoose, N. S.	June 21
June 26.	Carl Junction, Mo.	June 21
June 26.	Warsaw, Ill. Adv. June 21.	June 21
June 27.	West Frankfort, Ill.	June 21
June 27.	New York, N. Y.	June 21
June 28.	Cleveland, O.	June 21
June 28.	Casper, Wyo.	June 14
June 28.	Chicago, Ill. Adv. May 24.	May 24
June 30.	Jacksontown, O.	June 21
July 3.	Davenport, Ia.	June 14
July 3.	Ankeney, Ia. Adv. June 21.	June 21
July 6.	Cleveland, O. Adv. June 21.	June 21
July 7.	Pine City, Minn.	June 21
July 12.	Bridgeport, Conn. Adv. June 14 and 21.	June 14

STRUCTURAL STEEL WORK

June 25.	Wapato, Wash.	June 21
June 25.	Warren, O.	June 21
June 25.	Detroit, Minn.	June 21
June 26.	Mandan, N. D.	June 14
June 26.	Duval, Wash.	June 14
June 26.	Seattle, Wash.	June 21
June 27.	Brownsville, Tenn.	June 14
June 28.	Kinder, La.	June 14
June 29.	Morrillton, Ark. Adv. June 7.	June 7
June 29.	Crookston, Minn.	June 21
June 30.	Tacoma, Wash. Adv. June 7 and 14.	June 21
July 1.	Akron, O.	June 21
July 2.	Fairview, Okla.	June 21
July 2.	Greenville, Miss.	June 21
July 2.	Visalia, Cal.	June 21
July 2.	Warren, Minn.	June 21
July 6.	Corydon, Ind.	June 21
July 15.	Orange, Tex. Adv. June 7 to 21.	June 7
July 17.	West Palm Beach, Fla. Adv. June 21.	June 21

REINFORCED CONCRETE

June 23.	Schoharie, N. Y. Adv. June 7 to 21.	June 7
June 23.	Paris, Ill.	June 21
June 25.	Olympia, Wash.	June 14
June 25.	Clifton, Ariz.	June 7
June 25.	Pefferlan, Ont.	June 21
June 26.	Belva, W. Va.	June 14
June 26.	Monroe, Mich.	June 7
June 29.	Clarksburg, W. Va.	June 14
June 30.	Tacoma, Wash.	June 21
July 2.	Hamlin, W. Va.	June 14
July 2.	Warren, Minn.	June 21
July 10.	Montezuma, Ga.	June 21

STREETS AND ROADS

June 23.	St. Louis, Mo.	June 14
June 25.	Upland, Cal.	June 14
June 25.	Austin, Tex.	June 21
June 26.	Cleveland, O.	June 14
June 26.	Crowley, La.	June 14
June 26.	Rahway, N. J. Adv. June 7 and 14.	June 14
June 26.	Fayetteville, Tenn.	June 21
June 26.	Knoxville, Tenn. Adv. June 21.	June 21
June 26.	North Adams, Mass. Adv. June 21.	June 21
June 27.	Ohio	June 21
June 27.	Hackensack, N. J.	June 21
June 27.	Long Island City, N. Y.	June 21
June 28.	Indiana	June 14
June 28.	Oberlin, La.	June 14
June 28.	Red Cloud, Neb.	June 21
June 28.	Warrenton, Ore.	June 21
June 28.	Danville, Ky.	June 21
June 28.	Poughkeepsie, N. Y. Adv. June 14.	June 21
June 29.	Gretna, La.	June 21
June 29.	Elgin, Ore.	June 21
June 29.	Rutherford, N. J.	June 21
June 30.	Adamston, W. Va.	June 14
July 1.	Pine City, Minn.	May 31
July 2.	Hamlin, W. Va.	June 7
July 2.	Frederick, Md.	June 14
July 2.	Indiana	June 14
July 3.	Indiana	June 14
July 2.	Martinez, Cal.	June 21
July 2.	Waterville, Wash.	June 21
July 2.	Shelton, Wash.	June 21
July 2.	San Jose, Cal.	June 21
July 2.	Buhl, Minn.	June 21
July 3.	Lafayette, Ind. Adv. June 21.	June 21
July 3.	Rutherford, N. J.	June 21
July 6.	Vancouver, Wash.	June 21
July 9.	Winfield, W. Va. Adv. June 14.	June 21
July 9.	Albany, N. Y. Adv. June 21.	June 21
July 10.	Putnam, Va. Adv. June 21.	June 21
July 10.	Erwin, Tenn.	June 21
July 10.	Aberdeen, Miss.	June 21
July 14.	Indiana	June 14
Aug. 13.	Lewiston, Idaho	May 24

EXCAVATION AND DREDGING

June 25.	Wilmington, N. C.	June 21
June 26.	Albany, N. Y. Adv. May 31 to June 21.	May 31
June 26.	Benson, Minn.	June 14
June 28.	Hullett, Ont.	June 14
June 28.	Salinas City, Cal.	June 21
June 28.	Sturgis, Mich. Adv. June 21.	June 21
June 29.	Redwood Falls, Minn.	June 21
June 30.	Austin, Minn.	June 14
June 30.	Arcadia, Fla.	June 14
June 30.	Tuscola, Ill.	June 21
June 30.	Newton, Ia.	June 21
July 2.	Trenton, N. J.	June 21
July 2.	Grundy Center, Ia.	June 21
July 6.	Savannah, Ill.	June 21
July 18.	Glenwood, Ia. Adv. June 21.	June 21
July 20.	St. Cloud, Minn.	June 21

INDUSTRIAL WORKS

June 29.	Dunkirk, N. Y. Adv. June 21.	June 21

BUILDINGS

June 23.	Ironton, Minn.	June 14
June 23.	St. Augustine, Fla.	June 14
June 23.	Overpeck, O.	June 14
June 25.	Ft. Madison, Ia.	June 7
June 25.	Portsmouth, O.	June 14
June 25.	Augusta, Kan.	June 14
June 25.	De Graff, O.	June 14
June 25.	Syracuse, N. Y.	June 14
June 25.	Nevada, Ia.	June 14
June 25.	Terre Haute, Ind.	June 21
June 25.	Ft. Scott, Kan.	June 21
June 25.	Lincoln, Neb.	June 21
June 26.	North Tarrytown, N. Y.	June 21
June 26.	Sterling, Neb.	June 21
June 26.	Woonsocket, R. I.	June 21
June 26.	Mt. Vernon, O.	June 21
June 26.	Albany, N. Y.	June 7
June 26.	Mt. Vernon, O.	June 14
June 26.	Larned, Kan.	June 14
June 27.	New York, N. Y.	June 21
June 29.	Traer, Ia.	June 14
June 29.	Decatur, Ind.	June 21
June 29.	Youngstown, O.	June 21
July 1.	Magnolia, Ark.	June 14
July 1.	Riverton, Minn.	June 7
July 2.	Portsmouth, O.	June 21
July 9.	Cleveland, O.	June 14
July 10.	Huron, S. D.	June 21
July 10.	Philadelphia, Pa. Adv. June 21.	June 21

FEDERAL GOVERNMENT WORK

June 23.	Raton, N. M.	May 17
June 23.	New York, N. Y. Adv. May 24 to June 14.	May 31
June 25.	Washington, D. C.	May 31
June 25.	New Orleans, La. Adv. May 31 to June 21.	May 31
June 25.	Bremerton, Wash.	June 7
June 25.	Washington, D. C.	June 14
June 25.	Annapolis, Md.	June 14
June 25.	Vallejo, Cal. Adv. June 14.	June 14
June 25.	San Francisco, Cal.	June 21
June 25.	Philadelphia, Pa.	June 21
June 26.	Monesson, Pa.	May 31
June 26.	Gallatin, Tenn. Adv. June 21.	June 21
June 27.	Vineland, N. J.	June 7
June 28.	New Orleans, La. Adv. May 31 to June 21.	May 31
June 28.	Detroit, Mich. Adv. May 31.	May 31
June 28.	Prescott, Ark. Adv. June 7 to 21.	June 7
June 28.	Ft. Caswell, N. C.	June 21
June 30.	Detroit, Mich. Adv. June 7 and 14.	June 14
June 30.	Memphis, Tenn. Adv. June 21.	June 21
July 2.	St. Louis, Mo.	June 21
July 2.	Memphis, Tenn. Adv. June 21.	June 21
July 5.	Wilmington, Del. Adv. June 14 and 21.	June 14
July 5.	Topeka, Kan.	June 21
July 5.	Wilmington, Del.	June 21
July 5.	New York, N. Y. Adv. June 21.	June 21
July 10.	Buffalo, N. Y. Adv. June 14 and 21.	June 14
July 10.	Buffalo, N. Y.	June 21
July 11	Vicksburg, Miss. Adv. June 21.	June 21
July 12.	Hoopeston, Ill.	June 7
July 16.	Newburyport, Mass.	June 14
July 18.	St. Ignatius, Mont. Adv. June 21.	June 21
July 20.	Ft. Fairfield, Me.	June 21

MISCELLANEOUS

June 25.	Harbor Improvements — Newport, Ore.	June 7
June 25.	Incinerator Plant — New York, N. Y.	June 21
June 26.	Cast Iron Lamp Stands — Bayonne, N. J.	June 21
June 27.	Unloading Device — Cleveland, O.	June 21

Bids Close		See Eng. News-Record
July 2.	Retaining Wall — Clifton, Ariz.	June 21
	Adv. June 21.	
July 12.	Refrigerating Equipment—Thiells, N. Y.	June 21
	Adv. June 21.	
July 13.	Freight Conveyors—Albany, N. Y.	June 21
	Adv. June 21.	

Where name of official is not given, inquiries should be addressed to City Clerk., County Clerk or corresponding official.

WATER-WORKS

Proposed Work

N. Y., Yonkers—City preparing plans installing 6-in. water main in Argyle Terrace. E. Peene, supt.

Pa., Coatesville—City sold $36,000 bonds to improve water system. Address W. E. Greenwood.

Pa., Elwood City—State Dept. Health approved plans of Ellwood Water Co. for extensions to distributing system, concrete lined distributing reservoir and duplicate high service pump, requiring plans for enlargement of filter plant. Noted Apr. 5.

Pa., Etna—State Dept. Health approved plans chemical germicide apparatus to be installed as temporary measure and requiring plans for permanent improvements of water-works. H. A. Stoll, supt.

Pa., Homestead—City election July 24 to vote on $166,000 bonds to improve water system and install filtration plant. J. Bender, supt.

Pa., Mountville—See "Reinforced Concrete."

Pa., Tarentum—City approved plans auxiliary sedimentation basin for water filtration plant. J. C. Turner, supt.

Md., Baltimore—City plans to lay 70,000-ft. 4-in., 90,000-ft. 6-in., 9000-ft., 10-in., 2400-ft., 12-in., 3400-ft., 20-in., 4500-ft., 30-in., 1500-ft., 36-in., c.i. pipe, also install 5000 service connections, 250 fire hydrants and 50 meters. W. E. Lee, engr.

N. C., La Grange—City soon receives bids installing waterworks. Address the Mayor.

Tenn., Lebanon—City plans election to vote on $50,000 bonds to improve waterworks.

O., Akron—City voted $1,000,000 bonds to extend and improve water system. H. H. Frost, supt. Noted May 10.

O., Ashland—Council will issue $11,000 bonds to install water mains from Eastern Ave. to Waterworks station R.R. Conn., city engr.

Ill., Chicago—By-Products Coke Co., 108th St. and Calumet Ave., plans to build 1-story pumping station at plant. About $23,000.

Ill., Rock Island—City plans to install water mains in 3rd, 4th, 5th and 6th Sts. and Lincoln Park Blvd. R. W. Sharp, city engr.

Wis., West Allis—See "Sewers."

Minn., Manganese—Village sold $10,000 bonds for water system. G. Phelps, clk.

Neb., Indianola—City voted $22,800 bonds for water-works.

N. D., Cooperstown—City plans to install 50,000-gal. tank and 100-ft. tower.

N. D., LaMoure—City to sell $10,000 bonds July 2 for water system. B. W. Loppnow, clk. Noted May 3.

N. D., Langdon—City having plans prepared for water-works and sewerage system. About $50,000. J. Sheehan, city clk.

N. D., Minot—See "Buildings."

Wyo., Laramie—City plans to install 4700-ft. 6-in., 2100 ft. 4-in. and 700-ft. 10-in. c.i. pipe, 25 service connections, 20 hydrants and 60 gate valves. Z. E. Sevison, supt.

Mo., Jefferson City—Capital City Water Co. plans to install filter plant and additional mains. About $75,000 to $100,000. L. B. Landimann, supt.

Mo., Joplin—See "Sewers."

Tex., Abilene—City plans election to vote on bonds to build large mountain reservoir.

Okla., Bristow—City plans to improve water system.

Okla., Tulsa—City election June 28 to vote on $80,000 bonds to extend sewers. E. C. Hughes, city engr.

Wash., Bremerton—Water Dept. plans to purchase pump, etc., for water-works. About $500,000.

Wash., Seattle—Bd. Pub. Wks. soon receives bids building wooden water tanks and supporting towers at Maple Leaf Reservoir. About $15,000. L. B. Youngs, supt. Noted May 24.

Cal., Oakland—See "Miscellaneous."

Cal., Pasadena—S. B. Morris, ch. engr. water dept., estimates cost installing concrete-lined reservoir in Linda Vista Hills, at $8000; supply mains, $3350 and distributing mains $12,170.

Ont., Leamington—Council plans to install 2 centrifugal pumps, 750,000-gal. capacity; also reservoir, 1,000,000-gal. capacity at waterworks. E. V. Buchanan, City Hall, London, engr.

Ont., Steelton—Town Council plans sinking 2 pipes of 14- or 16-in. diam. to wells for their water supply. J. Robinson, town clk.

Ont., Tillbury—Council plans to install pumping plant. J. J. Newman, engr.

BIDS DESIRED

N. Y., New York—(Official)—Until July 10 by Bd. Water Supply, 22nd floor, Municipal Bldg., Park Row, Centre and Chambers Sts., for contract 184, paving Kensico aerator; advertised in this issue.

N. Y., New York—(Official)—Until July 10 by Bd. Water Supply, 22nd floor, Municipal Bldg., for Contract 187, fitting up chemical and bacteriological laboratory, etc. lower gate chamber Ashokan reservoir; advertised in this issue.

Ky., Winchester—(Official) — Until July 6 by city installing water system; plans include 4 sand filters, 500,000-gal. daily capacity, sedimentation basin, intake, filter and power house, 8-mi. force mains, 12-in. pipe, standpipe, 270,000 or 500,000-gal. capacity, distribution system, 6-in. mains, valves, hydrants, etc. About $180,000. E. B. Kay, ch. engr.

O., East Liverpool — (Official) — Until July 2 by T. Doherty, dir. pub. ser., for furnishing and installing steam, exhaust, feed water and miscellaneous small piping, pie covering for same, damper regulator and ash conveyor and other appurtenances on connection with equipment for new waterworks pumping station; advertised in this issue.

Ill., Farmington—(Official) — Until July 2 by city extending and improving water system; plans involve drilling deep well, building pumping station, elevated steel tower, etc. G. F. Hubbard, clk. Noted May 10.

Kan., Augusta—Until July 2 by city for improving waterworks; plans include filter equipment, centrifugal pumps, filter house addition and pump pit, also laying 3600 ft. c.i. pipe. C. W. Hawes, clk.

N. D., Anamoose—See "Sewers."

N. D., Towner—Until July 2 by City building underground reservoir. A. M. Berget, aud.

Que., Pointe Claire—Until June 27 by J. B. Martin, secy.-treas. for water filtration plant and low lift pumps. R. S. & W. S. Lea, 809 New Birks Bldg., Montreal, engrs.

Ont., Strathroy—Until July 1 by city improving waterworks. About $20,000. Kerry & Chace, Confederation Life Bldg., Toronto, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Ft. Andrews—See "Reinforced Concrete."

★Mass., Shrewsbury—(Official)—City let contract laying water pipes, Quinsigamond Ave. to D. D. Pietro, Boston, $11,521.

★R. I., Newport—City let contract reservoir, 6-in. supply pipe and 10-in. discharge pipe to Simpson Bros. Corp., 166 Devonshire St., Boston, $32,589.

★N. Y., Auburn—(Official)—Bd. Water Comrs. let contract sand filtration plant to J. E. Bunting Co., Flushing, $154,632. Noted May 10.

★Pa., Burgettstown—City let contract filtration plant to Pihl & Miller, Wabash Bldg., Pittsburgh, $100,000.

★Ga., Augusta—City let contract installing about 7000 water meters to Pittsburgh Meter Co., East Pittsburgh, and Natl. Meter Co.

★Ga., Macon—City let contract installing high service pump to Owens Hoover-Ranchler Co., of Hamilton-Carliss Engine Wks., Hamilton, O., $32,500. Noted May 17.

★Ala., Camden—City let contract improving waterwork to O. B. Bradford, Selma.

★Ind., Kendallville—City let contract reservoir to Newhart & Newhart, Terra Haute, $14,910; pumps, pipes and fittings to Indiana Engr. & Constr. Co., 702 Shaaff Bldg., Ft. Wayne, $6264. Noted May 31.

★Ill., Joliet—See "Sewers."

★Wis., Barron—City let contract building 14- or 16-in. deep well to Mc[illegible] Well Co., 670 Eustis St., St. Paul. Noted May 24.

★Ia., Bancroft—City let contract waterworks to Des Moines Bridge & Iron Wks., 9th and Tuttle St., Des Moines, $15,000.

★Ia., Coin—City let contract laying 10,852-ft. water mains to J. J. Dunnegan and E. H. Mitchell, Chenandoah.

★Ia., Riceville—City let contract drilling and casing well to J. Kuchar, Plymouth, $5.75 per ft. Noted June 14.

★Ia., Rockwell City—Bd. Control of State Reformatory let contract installing tower and tank to Des Moines Bridge & Iron Works, 9th and Tuttle Sts., Des Moines, $12,220.

★Kan., Tonganoxie—City let contract laying water pipe to Inter-Mountain Bridge & Constr. Co., Tecumseh, Neb., $40,000.

★Neb., Humphrey—See "Reinforced Concrete."

★Wyo., Laramie—City let contract laying 10,000-ft. water mains to J. S. Schwartz Colorado Springs, Colo.

★Idaho, Pocatello—City let contract installing water plant and distribution system to R. M. Bardsen.

★Ont., Oshawa—Water Comrs. let contract installing filtration system to Vermehr Engr. Co., Toronto. About $40,000. Noted May 31.

SEWERS

Proposed Work

N. Y., New York—Dept. Sewers prepared plans installing sewer and screening plant 91st St. and North River. C. E. Gregory, ch. engr.

N. J., Camden—City plans to install Sewers or drains in portions Freemont, Alberta, Carman, 32nd, Louis and 34th Sts. L. E. Farnham, city engr.

N. J., Garwood—Boro. Council plans to install joint trunk line sewer. About $80,000. E. R. Collins, city engr.

N. J., Palmyra—Town having plans prepared by Remington & Vosbury, engrs., 6th and Market Sts., Camden, for sewerage system and disposal plant.

Pa., Media—State Dept. Health approved plans for sanitary sewerage system, sewage to discharge into Marcus Hook sewerage system and Lower Chichester Twp.

Pa., Nazareth—State Dept. Health approved plans extension to sanitary sewer, including outfall sewer and sewage-treatment works.

Pa., Quincy—United Brethren Orphanage had plans prepared by Harrison, Mertz & Emlin, Inc., engrs., Commercial Trust Bldg., Phila., for sewage disposal plant and system. H. J. Kitzmiller, supt.

Pa., Sunbury—State Dept. Health approved plans sewerage and sewage treatment at Odd Fellows Orphan Home of Central Pennsylvania, Upper Augusta Twp.

Pa., Washington—State Dept. Health approved plans sanitary sewerage system and sewage pumping station, sewage to be delivered to Washington Boro. sewage treatment works at Washington Co. Home.

Pa., Williamsport—State Dept. Health approved plans for collection and treatment of all municipal sewage, requiring plans for outfall sewer, pumping station and partial treatment works; also sanitary sewerage system. J. B. Otto, city engr.

La., Shreveport—City soon lets contract installing storm sewer in Merrick St. E. M. Turner, city engr.

O., Cleveland—City plans to install sewers in East 18th and 158th Sts. R. Hoffman, city engr.

O., Cleveland Heights — (Warrensville P. O.)—Council approved plans installing sewers, Taylor Caledonia Sewer Dist. No. 5. F. C. Cain, pres.

O., Newark—Council plans to install sewers portion Florence St. E. H. Wells, city engr.

O., Wilmington—City plans to install sewers portions of Dists. 1, 2 and 3. R. H. Rannels, clk.

Mich., Bay City—City preparing plans installing 10- to 24-in. crock tile sewers. About $15,000. H. C. Thompson, city engr.

Sewers (Continued)

Ill., **Elgin**—City soon receives bids installing sewerage system in River St. About $50,000. M. H. Brightman, city engr.

Wis., **West Allis**—City plans to sell $15,000 storm sewer bonds, $25,000 sewer and $10,000 water bonds for improving sewerage and water systems. A. G. Orbert, city engr. Noted Apr. 19.

N. D., **Wyndmere**—Council plans to install sewerage system.

Mo., **Cape Girardeau**—(Official)—City receives bids in October, installing sanitary and storm sewerage system. About $300,000. C. E. Stiver, city engr. Noted June 7.

Mo., **Joplin**—City election June 21 to vote on $25,000 bonds for sewerage system and $5000 to extend water mains. J. J. McAfee, city engr.

Mo., **Maplewood**—(St. Louis P. O.)—City plans to install sewers in Greenwood sewer Dist. No. 2.

Okla., **Ada**—City voted $25,000 bonds to install sewers. Benham Engr. Co., Colcord Bldg., Oklahoma, engrs. Noted May 17.

Okla., **Tulsa**—City election June 28 to vote on $675,000 bonds to extend and improve water system.

Idaho, **Emmett**—City plans election to vote on $17,000 bonds to install sewerage system. D. M. Stokesbery, clk.

Ariz., **Glendale**—City plans election to vote on $30,000 bonds to install sewerage system.

Ore., **Portland**—(Official)—City receiving bids about July 5, installing sewer system, 50th St., S.E. and 31st Ave., plans include 1740 lin.ft. 30-in. monolithic concrete sewer, 14,050 cu.yd. excavation, 12,000 lin.ft. pipe sewer 6- to 24-in. diam. About $23,289. P. H. Dater, city engr.

Cal., **Los Angeles**—City defeated $1,750,000 bonds to install outfall sewers, etc. H. Hamlin, city engr. Noted May 31.

Cal., **Los Angeles**—City plans to install sewers portion Hoover and 9th Sts. H. Hamlin, city engr.

Cal., **Sacramento**—Advisory Bd. approved plans of Architectural Division of State Dept. of Engrs. for installing sewage disposal plant at Folsom Prison. About $11,000.

Cal., **San Diego**—City plans to install sanitary sewerage system portion Ocean Beach, Ocean Bay Beach, Ocean Beach Park Annex, Ocean Beach Extension No. 2, Ocean View Loma Alto No. 1, Point Loma Heights and subdivision of west half of northwest quarter of Pueblo. G. Cromwell, city engr.

Ont., **Brantford**—Bd. Pub. Wks. plans to install storm sewer in Oxford St., cost, $13,000; West Mill St., $6000; additional storm sewers, $7000, sanitary sewer, $5000. T. H. Jones, city engr.

Ont., **Port Arthur**—City will install sewers in Russell addition on portions Tupper, Duke, Hill and Dawson Sts. L. M. Jones, city engr.

Ont., **Sarnia**—Provincial Bd. Health approved plans for sewers in southern section of city. About $21,000. J. A. Baird, city engr.

BIDS DESIRED

N. Y., New York—Until June 27 by M. M. Marks, boro. pres., Room 2032, Municipal Bldg., for alteration to receiving basins with inlets on portion Broome St.

N. Y., Syracuse—Until June 25 by R. D. Roney, secy. bd. contract and supply, furnishing material and constructing west branch of 17th Ward sewerage system, involving 41,335 lin.ft. 36-in. to 6-in. vitr. clay or concrete sewer laid, 67 manholes, 1 sedimentation basin and 31 small catch basins.

Tenn., Erwin—See "Streets and Roads."

O., Cleveland—Until June 28 by city installing sewers portions Pratt Ave. extension, East 119th St. and Euclid Ave. R. Hoffman, city engr. Noted May 31.

O., Cleveland—(Official)—Until July 6 by Comr. Purchases and Supplies, for concrete outfall channel, etc.; advertised in this issue.

Ill., **Warsaw**—(Official)—Until June 26 by Bd. Local Improv., installing sanitary sewers, etc.; advertised in this issue.

Ill., **West Frankfort**—(Official)—Until June 27 by Bd. Local Improv. building sewerage system. About $93,256. R. B. Wilson, Marion, engr.

Ia., **Ankeny**—(Official)—Until July 3 sewer and sewage disposal plant; advertised in this issue.

Minn., Pine City—Until July 7 by Village Clk. for extension to sewerage system, involving about 1400 ft. 15-in. vitr. sewer pipe, 5 manholes, 4 catch basins, outfall to river, "Ys," and accessories.

Minn., St. Paul—(Official)—Until June 25 at office of H. W. Austin, purch. agt., for installing sewers portions Charlton, Wyoming and Winona Sts. Noted Apr. 12.

N. D., Anamoose—Until June 25 by Bd. Village Trustees installing sewerage and water systems. F. J. Funke, clk. Noted May 24.

Mo., Carl Junction—Until June 26 by city installing 10,000 ft. 8-in. lateral sewer. Former bids rejected. A. C. Moore, 417 Frisco Bldg., Joplin, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Milton**—Town Sewer Comrs. let contract laying 2536-ft. pipe sewer to D'Addario & Booth, 49 Edgewater Dr., Mattapan, $11,586. Noted June 14.

N. Y., New York—(Official)—M. M. Marks, boro. pres. received low bids for Contract No. 2, tunnel relief sewer and appurtenances in portion West 46th St., from Melrose Constr. Co., 147 East 125th St., $83,630; J. O'Leary, $83,907; P. J. Kearns Contr. Co., 2306 Creston Ave., Bronx Boro., $88,676. Noted May 31.

★**N. Y., Olean**—See "Streets and Roads."

★**N. Y., Rochester**—Bd. Contract and Supply let contract furnishing hydraulic power equipment for sewage disposal plant to O'Connell Electric Co., $25,000. Noted June 14.

N. J., Newark—Passaic Valley Sewerage Comm., received low bid for Kearny-Harrison branch intercepting sewer in Kingsland, Hamilton and Schuyler Aves., from Harrison & Craig, Essex Bldg., $104,000. Noted May 17.

★**N. C., Asheville**—City plans to install sewers in Short, Robert and View Sts. by day labor. B. M. Lee, city engr.

★**Fla., Miami**—City let contract installing storm sewers Ave. E to F. G. Proudfoot, $60,968; Riverside Heights to Duval & Ashworth, $34,000; Southside to J. J. Quinn, $12,000.

★**O., Youngstown**—(Official) — City let contract installing sewers portion Hillman and other streets to Jobin & Miller, 135 West Glenaven Ave., $24,125, and Miller Bros., 46 Dewey Ave., $19,188.

★**Ind., Gary**—Bd. Pub. Wks. let contract installing Armour sewer to Heiny & Holben.

Ind., Mishawaka—Bd. Pub. Wks. received low bid installing sewers in Gernhart Ave. and State St. from Staples & Ackerman, South Bend.

★**Ind., South Bend**—City let contract installing trunk sewer in Portage Ave. addition to Hoban & Roach, who transferred same to Natl. Constr. Co., 626 J. M. S. Bldg.; about $60,000. Noted May 10.

Ill., Joliet—City received low bids installing sewerage and water systems from Curtis & Tendall Co., $54,455; Joliet Embankment Co., $56,864.

★**Ill., West Chicago**—City let contract sewerage system, septic tank and filter beds to J. M. Egan, Jr., 105 South Mack St., Aurora, $150,000.

★**Wis., Burlington**—City let contracts storm sewers to C. E. Reed and sanitary sewers to Brogan & Burns, Green Bay.

★**Wis., Fond Du Lac**—(Official)—City let contract installing sewers 10 streets to A. Krueger and R. Bernett, Fond Du Lac.

Wis., Kimberly—City received low bids laying 1 mi. storm sewers from Farnham & Yahr, and H. Olk. About $21,000 for 1 kind of pipe and $23,000 for more expensive pipe.

★**Wis., Oshkosh**—City let contract installing 4 sewers to J. Rasmussen & Sons Co.

★**Wis., West Allis**—City let contract extending portion Mitchell St. storm sewer to Kroening Constr. Co., Milwaukee, $14,500.

★**Ia., Sioux City**—(Official)—City let contract installing storm sewers portion Pearl St., to W. B. Carter, $2.48 for 18-in. concrete pipe; Nebraska St. to J. F. Devlin, $2.78 for 24-in. concrete pipe. Noted May 31.

★**Neb., Hebron**—City let contract installing sewers in 3 new sewer districts to M. Vlasnick, Lincoln.

★**Neb., Omaha**—(Official)—City let contract installing Saddle Creek storm sewer from Marcy to Harney St. to J. J. Hanigan Co., 617 South 14th St., $76,056; storm sewers portion Railroad Ave. to J. S. Harrington, $7460.

★**Mo., Kansas City**—(Official)—City let contract installing sewers Dist. No. 409 to W. C. Mullins, 1230 Montgall Ave., $29,327; Dist. No. 425 to W. S. Axtell, 5517 Norton Ave., $23,794.

★**Tex., Bryan**—(Official)—City let contract installing sewerage disposal plant and main sewer to Bryan Constr. Co., Bryan, $12,119.

★**Okla., Oklahoma**—City let contract installing sewers to Moreno Constr. Co., Syndicate Trust Bldg., St. Louis, $182,344. Noted May 24.

★**Okla., Wilburton**—(Official)—City let contract installing system of sanitary sewers and disposal plant to McEachin & McEachin, McAlester, $25,000. Noted May 3.

★**Colo., Denver**—(Official)—City let contract installing sewers, North Denver Dist. No. 3, to J. R. Gordon, 334 Century Bldg., $17,915.

Colo., Pueblo—(Official)—City received low bids installing sewers, Mesa Paving Dist. No. 1, from Axton & Spratlen, 24th and Erd Ave., $317,573; Strange-McGuire Paving Co., Utah Savings & Trust Co., Salt Lake City, Utah, $318,413.

★**Wash., Seattle**—Bd. Pub. Wks., let contract installing sewers East 45th St., et al. to James Constr. Co., Seattle, $42,946.

★**Cal., Los Angeles**—City let contract vitr. sewers in Larchmont Blvd. Sewer Dist. to J. Sulalo, 476 Bell St., $14,393. Noted June 14.

Cal., Los Angeles—City received low bids installing sewers portion Victoria Park Dr. from W. A. Frick and J. Ukropins, $14,000; S. Zarubica, $16,000; M. Chutuk, $16,500.

STRUCTURAL STEEL WORK

Proposed Work

N. Y., Long Beach—State Dept. Highways prepared plans building bridge on Long Beach Rd., Barnum Island. About $60,000. F. Stark, Glen Cove, supt.

N. J., New Brunswick—A. Fox co. engr., preparing plans steel electric lift draw bridge over Delaware and Raritan Canal. Bids will soon be received. About $50,000.

Ga., Americus—See "Streets and Roads."

Ga., St. Marys—County voted $20,000 bonds to build bridge over Satilla River.

O., Columbus—City soon lets contract building new bridge over Scioto River on Rich St. About $80,000. H. Maetzel, city engr.

Ind., Elkhart—County and Indiana & Michigan Electric Co. plans to build steel bridge over St. Joseph River on Elkhart Ave. County to appropriate $63,800 toward cost, Indiana Electric Co., $18,400. A. Kinney, co. engr.

Ind., Goshen—County soon receives bids building steel girder bridge, concrete piers and abutments. About $80,000. C. Kinney, co. engr.

Ind., Logansport—H. M. Bell, co. surv., submitted plans to co. comrs. estimating cost building 372-ft. bridge over Eel River on 3rd St., at $110,000.

Ill., Quincy—L. L. Boyer, co. supt. highways, preparing plans repairing 200 bridges and culverts.

Wis., La Crosse—County soon receives bids building 2 30-ft. deck girder spans, 20-ft. roadway, involving 90 cu.yd. concrete and 13,660 lbs. steel. B. A. Jolivette, aud.

Ark., Rison—County soon receives bids building steel bridge over Saline River. Address E. R. Buster, Kingsland.

Okla., Ada.—See "Streets and Roads."

Okla., New Castle—Oklahoma and Grady Co. appropriated $70,000 to build bridge over South Canadian River. Address Co. Clk., Oklahoma Co., Oklahoma.

Okla., Topeka—City and County preparing plans 45-ft. deck girder bridge over Butcher Creek, 20-ft. roadway, 2 5-ft. sidewalks. W. E. Baldrey, city engr.

Okla., Tulsa—County election to June 28 to vote on $40,000 bonds to build north approach to county bridge; $30,000 to build viaducts.

Ariz., Clifton—Bd. Supervs. rejected bids steel arch bridge over Gila River. Noted May 4.

Wash., Montesano—G. D. Robertson, co. engr., preparing plans building combination bridge and approach at Prante bridge site.

Structural Steel Work (Continued)

Cal., Nicolaus—County soon lets contract building substructure bridge over Feather River. About $120,000. Address Co. Clk., Yuba City.

Ont., London—Canadian Pacific Ry. preparing plans rebuilding steel bridges and extending sidings. About $185,000. C. E. Stockdill, Winnipeg, Man., genl. mgr.

BIDS DESIRED

Fla., West Palm Beach—(Offical)—Until July 17 by Co. Comrs. building bridge over St. Lucie River; advertised in this issue.

Miss., Greenville—(Official) — Until July 2 by Bd. Supervs. building steel highway bridge over Granicus Bayou. J. S. Allen, co. engr.

O., Akron—(Official)—Until July 1 by F. R. Fauver, supt. pub. wks., Statehouse Annex, Columbus, for constructing steel dredge hull, together with all machinery pertaining thereto for ¾-yd. portable oiling burning dredge on Portage Lakes.

O., Warren—Until June 25 by Bd. Co. Comrs. building sunstructures and superstructures of Shade and Huston Bridges, Rd. No. 101, Sect. A, Newton Twp. M. H. Evans, clk.

Ind., Corydon—Until July 6 by S. C. Mauck, co. aud., constructing bridge at Corydon, 1 near Corydon and 1 at Lanesville.

Ind., Lanesville—See "Corydon, Ind."

Minn., Detroit—Until June 25 by J. A. Narum, co. aud., for 2 steel beam pile bridges for County Ditch No. 15, each one being 10-ft. span; also 3 18-ft. span and 7 15-ft. span steel beam pile bridges and 2 20-ft. 16-in. diam. steel or metal culverts.

Okla., Fairview—Until July 2 by Co. Comrs. building bridges and culverts.

Wash., Seattle—Until June 26 by Bd. Co. Comrs. for building Design "A" 180-ft. steel truss bridge, 1125-ft. approach, 20-ft. roadway. Design "B," 180-ft. wooden truss bridge, 1125-ft. approach, 20-ft. roadway. About $35,000 and $32,000 respectively.

Wash., South Bend—Until July 6 by Co. Comrs. for 80-ft. Howe Truss span with approaches across Salmon Creek, 1½ mi. east of Nasel; 60-ft. Howe Truss span across Salmon Creek, 4 mi. east of Nasel; clearing, grubbing, grading, draining and paving 1 mi. Natl. Park Highway. S. B. Henry, co. engr.

Wash., Tacoma—Until June 30 by Co. Comrs. building Bridge No. 26213A, over Hylebos Creek waterway, Lincoln Ave., Strauss trunnion bascule or Scherzer Rolling lift bridge, with trestle approaches, piers and fenders.

Wash., Wapato—Until June 25 by C. E. Barrett, co. aud., North Yakima, for bridge across Yakima River, 1 mi. from here.

Cal., Visalia—Until July 2 by Bd. Supervs. building 2 bridges on State Highway over Cameron and Packwood Creeks. G. R. Prestidge, clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. J., Newark—Union Smelting & Refining Co. let contract for structural steel for new factory on St. Charles St. to Heddon Iron Constr. Co., Hillsdale Ave., $59,000.

★Pa., New Kensington—Allegheny and Westmoreland Co. Comrs. let contract reflooring inter-county bridge over Allegheny River to Swartz-Mannella Co., Pittsburgh, $13,750.

★Pa., Sunbury—Philadelphia & Reading R.R. let contract steel girder bridge over Little Shamokin Creek, 1-mi. east of Sunbury, to Phœnix Bridge Co., 49 William St., New York City.

★O., Logan—See "Streets and Roads."

★O., Toledo—County let contracts constructing bridges totaling $43,000 to F. R. Marsh, E. N. Oberle, Wynkoop-McGormley Co., J. Sheehan & Co., A. Bumpers, E. Webb and W. J. Demuth.

★Ind., Muncie—Co. Comrs. let contract building William Bridge to J. E. Clark.

★Ill., Winchester—County let contract building Mauvaisterre Bridge, Rd. Dist. No. 7 to Herrick Constr. Co. Noted May 31.

★Ia., Des Moines—City let contract University Ave. bridge to W. Horrabin Constr. Co., Iowa City, $390,867. Noted May 24.

★Minn., Long Prairie—County let contract bridge over County Ditch No. 40, involving about 96,940 cu.yd. excavation, to S. H. Adams, Long Prairie, $14,940.

★N. D., Mott—(Official)—County let contract building bridges during year to Iowa Bridge Co., Des Moines.

★Okla., Stigler—County let contract building bridges to Union Bridge Co.

★Wash., Yale—Clarke and Cowlitz Co. Comrs. let contract suspension bridge over Lewis River to Portland Bridge & Iron Co., Portland, $15,000. Noted June 14.

★Ore., Coquille—(Official) —County let contract bridge over South Fork of Coquille River to Portland Bridge Co., Portland, $25,990. Noted May 24.

REINFORCED CONCRETE

Proposed Work

N. Y., Binghamton—City Engineering Dept. preparing plans concrete bridge over Park Creek on Vestal Ave. G. A. Gibel, city engr.

N. J., Camden—Continental Aircraft Co., Pkway. Bldg., Phila., plans 2-story, 80 x 150-ft., concrete plant on 6th St. A. B. McCormick, secy.

Pa., Eddystone—Philadelphia, Baltimore & Washington R.R. plans to build rein.-con. bridges over Eddystone and Sayville Aves. J. C. Austin, Wilmington, asst engr.

Pa., Hershey—Hershey Chocolate Co., plans 6-story rein.-con. addition.

Pa., Mountville—State Dept. Health approved plans rein.-con. storage reservoir and rein.-con. roof on existing reservoir.

Pa., Phila.—Phila. & Reading Ry. completed plans rein.-con. bridge with viaduct approaches over Schuylkill River to connect South and West Phila. About $1,000,000. S. T. Wagner, Old Colony Bldg., Phila., ch. engr.

Pa., Steelton—Bethlehem Steel Co., South Bethlehem, plans 4-story, 60 x 400-ft. rein.-con. addition, Front St.

Md., Baltimore—Davis & Lamb, Fidelity Bldg., having plans prepared by W. M. Gieske, archt., Gunther Bldg., 4-story, 130 x 150-ft., rein.-con. office building on Maryland Ave.

Wis., Milwaukee — Natl. Co-operative Food Products Co., 781 44th St., plans 2-story, 60 x 120-ft. rein.-con. factory, 37th and Burnham Sts.

Ia., Des Moines—City plans to build 50 x 120-ft. concrete bridge on Forest Ave. About $13,000. J. M. Tippee, city engr.

S. D., Sioux Falls—(Official)—County rejected bids rein.-con. outlet spillway for D.D. Nos. 1 and 2. Noted May 31.

Idaho, Grangeville—Grangeville Electric Light & Power Co. plans to spend $75,000 for concrete dam to generate 1500 to 2000 hp. according to flow of water; also flume 1500 ft. long. This plant will supply towns and industrial establishments in vicinity. E. Enloe, 521 1st Ave., Spokane, Wash., pres.

Wash., Olympia—Council passed ordinance to build rein.-con. bridge over Des Chutes waterway on 4th St., also paving highway to city limits. About $129,476.

Cal., Los Angeles—Globe Grain & Milling Co. having plans prepared by Leonardt & Peck, archts., 356 South Spring St., for 2-story, 57 x 120-ft. rein.-con. office building.

Cal., Manteca—1st State Bank of Manteca having plans prepared by Sweetser & Baldwin Safe Co., archt., Marshall-Strong Bldg., Los Angeles, for rein.-con. building.

BIDS DESIRED

Ga., Montezuma—Until July 10 by Bd. Comrs., Oglethorpe, for rein.-con. deck girder bridge, 24-ft. clear span, 18-ft. roadway, near here, being first of series of concrete bridges costing $100,000. A. Pew, Atlanta, engr.

Ill., Paris—Until June 23 by Comr. Highways, for 1 20-ft. rein.-con. bridge and 12 concrete culverts.

Minn., Crookston—Until June 29th by County building 2 23-ft., 1 30-ft. and 1 18-ft. concrete and steel spans, also 2 6 x 4 x 24 and 1 6 x 4 x 34 rein.-con. culverts. E. H. Harding, co. engr.

Minn., Warren—Until July 2 by Bd. Co. Comrs. for 20 rein.-con. bridges at various points in county, varying in size from 12-ft. to 75-ft. span. About $70,000. O. Lind, Warren, engr. Noted May 31.

Wash., Tacoma—Until June 30 by co. comrs. for rein.-con. dock at Dash Point. D. H. White, co. engr.

Ont., Pefferlaw—Until June 25 by R. Cronsberry for rein.-con. truss bridge, 40-ft. clear span, over Black River, Georgina Twp. F. Barber, 40 Jarvis St., Toronto, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Ft. Andrews—City let contract 300,000-gal. concrete reservoir to Hallett-Grant Constr. Co., 136 Federal St., Boston, $18,149.

★Mass., New Bedford—(Official)—Belleville Storage Corp. let contract 7-story, 100 x 482-ft. rein.-con. storage warehouse to Turner Constr. Co., 244 Madison Ave., New York City.

★Conn., Hartford—State Highway Comn. let contract 3-span rein.-con. bridge over Hammonsett River, Clinton and Madison Twps. to J. G. Holbrook, Westbrook, $20,000; T-beam bridge, Colchester and Hebron Twps., and improving 1700 lin.ft. graded road to F. A. Wilcox, Norwich, $10,200. Noted June 14.

★N. Y., Brooklyn—(Official)—American Mfg. Co., Noble St., Greenpoint, let contract rein-con. coal pocket, 1000-ton capacity, to Turner Constr. Co., 244 Madison Ave., New York City.

★N. Y., Long Island City—Premier Metal Etching Co., 625 East 18th St., New York City, let contract 2-story, rein.-con. factory, 14th St and Van Alst Ave., to J. O'Dell Whitenack, 231 West 18th St., New York City, $70,000.

★Pa., Brownsville—Vista Coal Co., Jones and Laughlin Bldg., Pittsburgh, let contract 2 concrete-lined shafts to Bravo Constr. Co., Diamond Natl. Bank Bldg., Pittsburgh.

★Fla., Bartow—See "Streets and Roads."

★Ind., Indianapolis—City let contract rein.-con. bridge across Pogue's Run on Michigan St. to T. R. Mead & Co., $12,975.

★Ia., Toledo—(Official)—County let contract building 14 rein.-con. culverts and 2 I-beam bridges to A. P. Munson, Marion, $14,306. Noted May 31.

★Neb., Humphrey—City let contract installing 100,000-gal. rein.-con. reservoir to Elkhorn Constr. Co., Fremont.

★S. D., Leola—(Official)—County let contract building 6 steel and concrete bridges to Whitewater Bridge Co., Aberdeen. About $10,000. Noted May 31.

★Ariz., Yucson—Santa Rita Hotel let contract rein.-con. addition to J. V. McNeil, Wesley Roberts Bldg., Los Angeles, $120,000.

★Wash., Nisqually — (Official) — State Highway Comn., Olympia, let contract rein. con. bridge over Northern Pacific R.R. tracks to W. J. Murphy, Tacoma, $28,440. Noted May 24.

STREETS AND ROADS

Proposed Work

N. H., Claremont—(Official)—City receiving bids about July 6 paving Main St., topeka surface, concrete base, plans include 8000-sq.yd. pavement, 2000 lin.ft. concrete curb, 1000-ft. sewers. G. P. Winn, Nashua, engr.

Mass., Northboro—City plans to repave portion Main St. About $10,000.

N. J., Asbury Park—Co. Comrs. plan to lay warrenite on 20-ft. roadway on Main St. About $12,000. W. A. Berry, mayor.

Pa., Williamsport—County voted $30,000 bonds to join state highway dept. in improving highways in county. Noted May 24.

Va., Portsmouth—County Rd. Comn., will appropriate $25,000 to be added to State Aid of $25,000 to build road from Portsmouth to Nansemond Co. line, macadam.

S. C., Saluda—County plans to build 25.7-mi. road between Ridge Springs and Greenwood Co. line. G. W. Langford, superv.

Ga., Americus—County plans election to vote on $100,000 bonds to build roads and bridges.

Ga., Thomson—City plans to extend paving on Main St., brick.

La., Alexandria—Bd. Supervs., Rd. Dist. No. 8, rejected bids building 15-mi. roads. New Bids. J. W. Texada, pres. Noted May 4.

Ky., Owensboro—(Official)—County soon lets contract improving Hardingsburg Rd., known as State Rd. No. 30 T1, involving 16,411 cu.yd. excavation, 193 cu.yd. concrete, 6443 tons broken stone or 4881 cu. yd. river gravel. J. Weir, clk.

O., Bryan—Council passed ordinance to grade, drain, curb, pave, Willison, High and Union Sts. About $15,000.

O., Cleveland—City plans to pave and improve portions of Crawford, Marsh, Elliott, Dickens, Otis and East 71st Sts. and Lake Shore Blvd. R. Hoffman, city engr.

Streets and Roads (Continued)

O., Columbus—City plans election in August to vote on $500,000 bonds to improve streets. H. Maetzel, city engr.

O., Toledo—County soon receives bids improving Peach, Bancroft, Glanzman, Michigan, Craig, Bay Rd., Bay Ave. extension and Bay Shore Blvd. About $120,000.

O., West Unity—Village plans to improve portion Michigan Ave.

Ind., Decatur—County sold $25,520 bonds to build roads.

Michigan—State Highway Comn., Lansing, plans to improve 9-mi. road from Montague to New Era.

Ill., Belleville—City soon lets contract improving portion Missouri Ave. W. C. Wolf, city engr.

Ill., Chicago—City plans to pave portion Bway. and South Chicago Ave., creosoted blocks. About $110,000 and $143,000 respectively. J. Ericson, city engr.

Ill., Highland Park—C. E. Russell, engr. for committee of mayors of 11 north shore cities between Chicago and Waukegan, submitted report on feasibility of military road to connect Great Lakes Training Stat. and Ft. Sheridan with Chicago. Mr. Russell stated that existing brick road could be repaired and connected up by 13 mi. new 24-ft. brick pavement to cost $730,000, said route to parallel Chicago & Northwestern Ry. A permanent brick road, 54-ft. wide, would cost $5,000,000.

Minn., Fergus Falls—County plans to spend $20,000 to build and improve state highways. W. A. Lincoln, aud.

Minn., Lake City—County plans to spend $34,297 to build portion State Rd. No. 1, from Kellogg to Smithfield, through Plainview and Elgin to Olmstead. State to appropriate $15,000 toward cost. J. Boss, co. aud.

Kan., Hiawatha—City plans to pave portion Kickapoo St. J. W. Liebengood, clk.

Kan., Nashville—Co. comrs. plans election to vote on $600,000 bonds to build 121-mi. macadam roads.

N. D., Minot—See "Buildings."

Mont., Great Falls — State Highway Comn. granted permission to Co. Comrs. to build 18-mi. graveled roadway between Great Falls and Sun River. Work to be done under supervision of State Highway Comn. About $40,000. P. Pratt, state highway engr.

Mo., Nevada—City voted $30,000 bonds to build road to Military Reservation. S. L. Higgins, clk.

Mo., Sikeston—County defeated $800,000 bonds to build roads. Noted Apr. 26.

Mo., Washington—City plans to pave portion 4th St. J. H. Conrads, clk.

Tex., Beaumont—City voted $300,000 bonds to build roads. C. L. Scherer, city engr.

Tex., Canadian—County voted $150,000 bonds to build roads.

Tex., Crosbyton—County plans to build roads and bridges, Rd. Dist. No. 1. About $50,000. J. K. Fullingim, co. comr.

Tex., Donna—City plans to spend $10,000 to improve streets.

Tex., Gorman—City voted $10,000 bonds to improve streets.

Tex., Pittsburg—County voted $30,000 bonds to build roads, Naples and Omaha Rd. Dists.

Okla., Ada—County plans election to vote on $650,000 bonds to build roads and bridges.

Okla., Ardmore—Bd. Comrs. plan to improve F St. W. R. Roberts, mayor.

Okla., Holdenville—Bernard Twp. voted $50,000 bonds to build roads.

Okla., Oklahoma—City plans to improve portion West Main St. G. V. McClure, city engr.

Okla., Okmulgee—County issued $800,000 bonds to build roads. G. E. Morton, clk.

Okla., Tishomingo—County voted $30,000 bonds to build roads, Garner Twp. A. Hatcher, engr. Noted Apr. 26.

Idaho, Grangeville—Grangeville Highway Dist. to appropriate $35,000 and Whitebird Dist. $15,000 to be added to state and federal appropriations to build North and South State Highway from Whitebird Ridge to Grangeville.

Idaho, Mackay—Co. Comrs. plan to spend $150,000 to build feeders to State Highway Post Rd. S. Ballard, co. engr.

Utah, Brigham—Co. Comrs. plan to build 1-mi. concrete road between Willard and Hot Springs.

Utah, Salt Lake City—City soon receives bids paving portions Center, 1st, 4th N., and 5th N. Sts. S. Q. Cannon, city engr.

Utah, Salt Lake City—State Highway Comn. and Federal Officials preparing plans building 129-mi. highways. About $404,000, ½ of cost to be borne by state and ½ by U. S. Government.

Ariz., Clifton—County voted $200,000 bonds toward cost of Clifton-Springerville Highway, about 71-mi. in length, to be built by U. S. Government, who will share ½ of cost. Noted Apr. 26.

Wash., Bellingham—County rejected bids building Geneva Highway. New Bids.

Wash., Centralia—City passed resolution to improve Washington, Locust, Walnut, Pear, Plum, Cherry, Chestnut, Silver, Iron, Rock, Oak, Ash, King and other streets by laying 5-ft. concrete sidewalks, also alley Block 14, Washington addition. L. M. Lee, clk. Noted Apr. 19.

Wash., Spokane—Council plans to pave, grade and sewer portion Mallon Ave.; paving to cost, $23,500; sewers $7700. M. Macartney, city engr.

Wash., Waterville—Co. Comrs. approved plans R. F. Foster, co. engr., building and improving roads during 1917 and 1918. About $250,000.

Ore., McMinnville—County will prepare 10- or 15-mi. roadbed for hardsurfacing during year.

Ore., McMinnville—Council plans to pave portion G and Balm Sts. About $12,000.

Ore., Oregon City—Co. Comrs. applied to State Highway Comn., Salem, to hardsurface about 8 mi. during year.

N. S., New Glasgow—Council plans to pave South St., cost, $14,000; North Provost St., $10,500. J. Roy, clk.

N. S., Sydney—City plans to improve Victoria Rd. R. McKinnon, acting city engr.

Que., Batiscan—City plans to build macadam highways. About $16,000. J. Fugire, clk.

Que., Chicoutimi—City soon lets contract building macadam roads. About $100,000. J. F. Trenon, engr.

Que., St. Alexis—City soon receives bids building macadam roads. About $35,000. J. Belanger, clk.

Ont., Sarnia—Council plans to pave Ross St., also build granolithic sidewalks on Devine, Russell and Stewart Sts. J. A. Baird, city engr.

Man., Winnipeg—City plans to build roads, asphalt. About $15,000. W. T. Brereton, engr.

B. C., Surrey—City voted $23,000 bonds to build and improve roads. C. Lemax, clk. Noted May 24.

BIDS DESIRED

Mass., North Adams—(Official)—Until June 26 by city repaving Union St.; advertised in this issue.

N. Y., Albany—(Official)—Until July 9 by State Comn., 55 Lancaster St., repairing highways in various counties; advertised in this issue.

N. Y., Long Island City—Until June 27 by M. E. Connolly, boro. pres., regulating and paving with permanent pavement on 6-in. concrete foundation, consisting of either wood block, asphalt block, iron slag, brick or vitr. brick in portion Van Alst Ave., 1st Ward; also regulating and grading sidewalk spaces and laying sidewalks where necessary on East side Beach, 94th St., 5th Ward.

N. Y., Poughkeepsie — (Official)—Until June 28 by Bd. Pub. Wks., paving various streets; advertised in this issue.

N. J., Hackensack—Until June 27 by Bd. Freeholders, paving 2nd Sect. Ft. Lee turnpike, rein.-con. J. M. Harkness, clk.

N. J., Rutherford—Until June 29 by Council paving Raymond St., asphalt. F. A. Stedman, boro. clk.

N. J., Rutherford—Until July 3 by Mayor and Council resurfacing and widening 21,925 sq.yd. Union Ave., B.C. grade A, telford and macadam foundation.

Va., Putnam—(Official)—Until July 10 by White Oak Lumber Co. for grading 6 mi. standard gauge log roads; advertised in this issue.

W. Va., Winfield—(Official)—Until July 9 by County building 6-mi. road, Pocatalico Dist.; advertised in this issue.

Miss., Aberdeen—Until July 10 by County improving 49-mi. sand-clay roads. About $50,000 available.

La., Grethna—(Official)—Until June 29 by C. F. Gelbke, mayor, and Bd. Aldermen, for paving Copernicus, 1st, Washington, Anson, Monroe, 2nd, and Monroe Sts., bitulithic and small granite blocks on concrete subbase.

Tenn., Erwin—Until July 10 by O. E. Bogart, city recdr., paving and grading 14,000-sq.yd., including concrete curb and gutter, sidewalks, also installing storm sewers with sanitary house connections. H. W. Morgan, engr.

Tenn., Fayetteville—Until June 26 by H. Higgins, city clk., paving 12,000-sq.yd. Court Sq., wood block, vitr. brick, sheet asphalt or cement concrete; concrete curb and gutter, also installing pipe sewers, etc. W. T. Kirkpatrick, 704 Farley Bldg., Birmingham, engr.

Tenn., Knoxville—(Official)—Until June 26 by J. W. Flenniken, comr. streets and pub. improv. resurfacing about 35,000 sq. yd.; advertised in this issue.

Ky., Danville—(Official)—Until June 28 by Council improving portion Main St., wood block, sheet asphalt, bituminous concrete or vitr. block, including cement concrete sidewalks. S. F. Crecelius, city engr.

Ohio—Until June 27 by State Highway Comn., Columbus, building roads in various counties. C. Cowen, Comr.

Ind., Lafayette—(Official)—Until July 3 by Bd. Co. Comrs. building 2.06-mi. brick road, Fairfield Twp.; advertised in this issue.

Minn., Buhl—Until July 2 by City paving portion Mercer, State, Frantz, Sharon and Grand Sts.

Neb., Red Cloud—Until June 28 by City paving 15,000-sq.yd. and 4000 lin.ft. curb and gutter.

Tex., Austin—Until June 25 by H. W. Austin, city purch. agt., paving and widening portion Payne Ave. and Minnehaha St.

Wash., Port Angeles—Until July 3 by Co. Comrs. clearing, grading, grubbing, bridging and gravelling permanent Highway No. 7. A. U. Blackwood, co. engr.

Wash., Shelton—Until July 2 by Co. Comrs. building Sect. 2 Permanent Highway No. 4; also for Olympic Highway between Hoodsport and Potlatch. A. L. Ward, co. engr. Noted May 24.

Wash., South Bend—See "Structural Steel."

Wash., Vancouver—Until July 6 by Co. Comrs., building 3-mi. hard surfaced roads. About $40,000. B. L. Dorman, co. engr. Noted June 7.

Wash., Waterville—Until July 2 by Co. Comrs. building highway in Local Improvt. Dist. No. 3. About $13,500. R. F. Foster, co. engr.

Ore., Elgin—Until June 29 by L. B. Tuttle, city recdr., building concrete sidewalks.

Ore., Warrenton—Until June 28 by Co. Comrs., Astoria, building portion County Rds. No. 17 and 57 through city of Warrenton. About $16,500.

Cal., Martinez—Until July 2 by J. H. Wells, co. clk., building 11-mi. highway from Walnut Creek to Bay Point, Div. Nos. 5 and 6.

Calif., San Jose—Until July 2 by H. A. Pfister, co. clk., improving Saratoga, Los Gatos, Montague and Lewis Highways and McLaughlin and Carlos Sts.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. H., Portsmouth—Bd. Pub. Wks. let contract paving Middle and Daniel Sts. to Warren Bros., 142 Berkley St., Boston, $51,305.

★Mass., Mattapoisett — State Highway Comn., Boston, let contract surfacing roads to B. F. Watkins, 500 Acushnet Ave., New Bedford.

Mass., Spencer—State Highway Comn., Boston, received low bid building 8300-ft. highway from T. A. Moynihan, South Hamilton, $11,100.

★N. Y., Brooklyn—L. H. Pounds, boro. pres., let contract regulating, grading, curbing and laying sidewalks portion Ave. T to N. Caponi, 1320 65th St., $8180; regulating and repaving with permanent grade portion of West Ave. to Leonard Paving Co., Inc., 233 Bway., New York City, $19,792; regulating and laying asphalt pavements portion of West 33rd and 77th Sts. to Borough Asphalt Co., 1301 Metropolitan Ave., $5496 and $6174 respectively; repaving where directed cement walks of small parks to J. L. Brennan, 233 West 167th St., New York City, $41,650.

N. Y., New York — (Official) — M. M. Marks, boro. pres. received low bid regulating and repaving portion Monroe St., from W. J. Fitzgerald, 547 West 45th St., $10,872. Noted June 14.

N. Y., New York—(Official)—M. M. Marks, boro. pres. received low bids paving (a) 6th Ave. (b) 19th St., (c) 9th Ave.

Streets and Roads (Continued)

(d) 44th St. (e) 48th St. without binder (f) 48th St. (g) 57th St. (h) Lenox Ave. from Sicilian Asphalt Paving Co., 41 Park Row, (a) $21,236 (b) $10,396 (c) $29,639. Asphalt Constr. Co., Madison Ave. and 137th St., (a) $18,807, (b) $10,621 (c) $27,377 (d) $20,361 (e) $27,649 (f) $27,787 (g) $14,498 (h) $69,152; Uvalde Asphalt Paving Co., 1 Bway., (a) $19,860 (b) $11,163 (c) $27,105 (d) $20,640, (e) $27,222 (f) $27,222 (g) $12,039 (h) $70,256.

★**N. Y., New York**—(Official)—City let contract regulating, etc. on Broome St. to Cleveland Trinidad Paving Co., Park Terrace from 217th to 218th Sts., Cramer & Leedke; Academy St., M. Baird, 433 East 92nd St., 86th St., Park Terrace from 215th to 217th Sts., Asphalt Constr. Co., Madison Ave. and 137th St., Jefferson St., W. J. Fitzgerald, 547 West 45th St., 217th St., Dabney Asphalt Co.

★**N. Y., Olean**—Comrs. Pub. Wks. let contract paving and installing storm water sewers portion East Pine St. to H. E Bunce, 125 Fulton St., $17,460. Noted Apr. 26.

N. J., Elizabeth—Bd. Pub. Wks. received low bids paving Market St., from Uvalde Asphalt Paving Co., 2 Greene St., $30,034; and Standard Bithulithic Co., 31 Clinton St., $30,522.

★**N. J., South Orange**—Village let contract paving Center St. to L. Batt, 22 Irvington Ave., $20,771.

★**N. J., Trenton**—City Comn. let contract paving 6000-sq.yd Brunswick Ave. and 12,000-sq.yd. South Broad St., to C. A. Reed & Co., 623 Monmouth St. Noted May 4.

★**N. J., Ventnor City**—City let contract paving streets, sheet asphalt, to W. Quinlan, Delaware and Mediterranean Aves., Atlantic City, $60,000.

★**N. J., Westfield**—Boro let contract paving 21,000 sq.yd. concrete and 5280 ft. concrete curb to C. W. Matthis & Co., Seaside Park, $20,000.

Pennsylvania—(Official) — State Highway Dept., Harrisburg, received low bids highways in various counties as follows: Dauphin Co., Stucker Bros. Constr. Co., Russ Blk., Harrisburg, $18,192; F. J. Reily, Lancaster, $18,887; Clarion Co., Clarion and Paint Twps., M. J. Scanlon, New Castle, $106,167; Greene Co., Center Twp., J. W. Hallam, Washington, $28,732; Reed, Yoders & Moore, Waynesburg, $32,300; R. Swan, Jr., Co., Pittsburgh, $48,816. Noted May 17.

★**Pa., Phila.**—Dept. Pub. Wks. let contract repairing Woodland Ave to J. J. McHugh, 1430 South Penn Sq., $80,000.

★**N. C., Yadkinville** — (Official) — Co. Comrs. let contract for 27 mi. sand clay roads to J. S. Graham, Yadkinville. Noted May 17.

★**S. C., Beaufort**—City let contract 13,000 sq.yd. vitr. brick pavement to Southern Clay Mfg. Co., James Bldg., Chattanooga, $21,390.

★**S. C., Charleston**—City let contract paving 20,000 sq.yd. sheet asphalt, and 1000 sq.yd. creosoted wood block to Lawson Constr. Co., Essex Bldg., Norfolk. Noted June 14.

★**Fla., Bartow**—(Official)—Co. Comrs. let contract paving 46.5-mi. roads, Winter Haven Special Rd. and Bridge Dist., to Eureka Paving Co., Haines City, Fla., and Huston Tex., building 9 rein-con. bridges to Blodgett Constr. Co., Montgomery, Ala. Noted May 10.

★**Fla., Ft. Lauderdale**—(Official)—County let contract hard surfacing 8-mi. road in Special Rd. and Bridge Dist. No. 1 to Bryan & Snyder, Ft. Lauderdale, $15,000; 7-mi. to Sturgis & Oliver, Ft. Lauderdale, $24,000. Noted May 17.

★**Fla., Palatka**—County let contract building roads to Cornwell Constr. Co., Tampa, $71,000.

★**Tenn., Harriman**—County let contract 30 mi. sandstone bed and limestone finished road to Carr Contr. Co. About $70,000.

★**Ky., Owensville**—City let contract paving 35,000-sq.yd. streets, bituminous concrete, to Andrews Asphalt Paving Co., Maple Ave., near East Ave., Hamilton, $46,291. Noted June 14.

Ohio—State Highway Comn., Columbus, received low bids, June 14, building roads in various counties as follows:

Athens Co., Section "B", Ripley-Hillsboro Rd., grading roadway, providing necessary drainage structures and paving with waterbound macadam, 5.49 mi., B. F. Eddy & W. A. Brannock, Athens, $21,746;

Coshocton, Co., Sect. "D" New Comerstown-Coshocton Rd., constructing bridges and culverts, grading roadway and paving with waterbound macadam and monolithic brick, 3.09 mi., T. J. Norman & Son, Canal Dover, $57,625;

Fulton Co., Sect. "L" Toledo-Wauseon Rd., constructing bridges and culverts, grading roadway and paving with bituminous macadam, 1.34 mi. alternative bids were also received, Zeller & Drum, Swanton, $18,029 and $17,084; Gray Bros., Bowling Green, $17,500;

Fairfield Co., Sect. "M-2" Cincinnati-Zanesville Rd., constructing bridges and culverts, grading roadway and paving with 1 of following types, C. E. Williams, Grand Rapids, Mich., bituminous (asphaltic A-ic) macadam, $54,193;

Fulton Co., Sect. "K-1" Toledo-Angola Rd., constructing bridges and culverts, grading roadway and paving with waterbound macadam 1.25 mi., Barnes & Talbot, Rocky Ridge, $12,889;

Fulton Co., Sect. "A-1" Liberty-Adrian Rd., grading roadway, building bridges and culverts and paving with waterbound macadam, 1.12 mi., Gray Bros., Bowling Green, $11,300; Barnes & Talbot, Rocky Ridge, $11,334;

Hancock Co., Sect. "B-1" Findlay-Kenton Rd., constructing concrete beam bridge, Wilson & Liles, Forest, $5194; Gluss Bros., Hamler, $5573; W. S. Albrink, Napoleon, $5727;

Knox Co., Sect. "K" Mt. Vernon-Coschocton Rd., constructing culverts and bridges, grading roadway and paving with waterbound macadam, 1.48 mi., Mack Gledhill, Galion, $22,977; Baker Constr. Co., Columbus, $23,069; W. G. Mustard, Ada, $23,299;

Medina Co., Sect. "L-2" Barberton-Greenwich Rd., constructing drainage structures, grading roadway and paving with concrete, 1.23 mi., Crawford & Little Co., Elyria, $16,597;

Morgan Co., Sect. "P" McConnelsville-Marietta Rd., constructing bridges and culverts, grading and paving with brick, 2.01 mi., W. H. Quigley, McConnelsville, $51,832; John Hipskind & Co., Richmond, Ind., $52,089;

Pickaway Co., Sect. "N" Cincinnati-Zanesville Rd., constructing bridges and culverts, grading roadway and paving with waterbound macadam, 2.23 mi., R. L. Row, Circleville, $18,973; Brewer, Tomlinson & Brewer, Chillicothe, $19,012; Rightsell & Long, Logan, $19,275; O. M. Junk, Chillicothe, $19,275;

Pike Co., Sect. "I" Portsmouth-Columbus Rd., constructing culverts, grading and paving with brick on concrete foundation, 1.04 mi., Bolin & Wilt, Washington, C. H., $30,535; O. M. Junk, Chillicothe, $30,850;

Trumbull Co., Sect. "H" Ravenna-Warren Rd., constructing Duck Creek Bridge (replacing superstructure complete), G. Stein, Niles, $2643; R. F. Moran, Courtland, $2695;

Vinton Co., Sect. "G" Mcarthur-Athens Rd., constructing pavement, 1.57 mi., Kuehner & King, Mcarthur, $5349;

Washington Co., Sect. "M" of Hockingport-Powhatan Rd., shaping roadway and paving with concrete (plain and reinforced), 1 mi., Straw & Huber, Paulding, $21,542; S. A. Palmer, Marietta, $21,623;

Washington Co., Sect. "O" Marietta-McConnellsville Rd., constructing bridges and culverts and paving with plain concrete, 1.0 mi., McIllfresh, Danford Co., Caldwell, $19,579; Straw & Huber, Paulding, $19,673; Lewis & Turner, Logan, Ohio, $19,696;

Williams Co., Sect. "C" Bryan-Edgerton Rd., constructing bridges and culverts, grading roadway and paving with 1 of following types, Kelly Constr. Co., Bryan, waterbound macadam, $55,941; Westrick & Coady, Holgate, $54,803; Feulling & Krudop, Ft. Wayne, Ind., $55,409; bituminous macadam, Westrick & Coady, Holgate, $65,984; Fuelling & Krodop, Ft. Wayne, Ind., $66,560; Kelly Constr. Co., Bryan, $67,092;

Ashland Co., Sect. "C" Ashland-Loudonville Rd., surface treating with bituminous material, 2 mi.; Sect. "D" Ashland-Oberlin Rd., surface treating with bituminous material, 1.6 mi., Barrett Mfg. Co., Cleveland, $3028;

Clark Co., Sect. "D" Springfield-Urbana Rd., surface treating with hot oil, 1 mi.; Sect. "E" National Rd., surface treating with hot oil, 2.24 mi., Atlantic Refining Co., Columbus, $2834;

Defiance Co., Sect. "A" and "B", Archbold-Defiance Rd., treating with tar, [illegible] miles, Barrett Mfg., Co., Cleveland, [illegible] $2159;

Erie Co., Sect. "F" Cleveland-Sandusky Rd., surface treating with bituminous material, 1.5 mi., E. F. Hoffman, Castalia, $1250; Atlantic Refining Co., Columbus, $1254; Sect. "I" surface treating with tar, 1.15 mi., E. F. Hoffman, Castalia, $[illegible] Barrett Mfg. Co., Cleveland, $708;

Fayette Co., Sect. "A", "B" and "C" Washington - Bloomingburg Rd., surface treatment, lengths of section "A" and "B" 21,291 ft., length of section "C", 2417 to Atlantic Refining Co., Columbus, $3811;

Franklin Co., Sect., "D-2" of I. C. H. No. 49, length, 1245 ft. Sect. "H-2" of I. C. H. No. 50, length 32,760 ft. surface treating with asphalt, Atlantic Refining Co., Columbus, $5990; Citizens Rd., Preserving Co., Cincinanti, $6019;

Fulton Co., surface treatment with cold oil: Sect. "I" I. C. H. No. 21, length 5300 ft., Sect. "C." I. C. H. No. 301, 5305 ft. Sect. "G", 7977 ft., Sect. "J", 5285 ft., Sect. "D", 5371 ft., Sect. "A", I. C. H. No. 20, 5284 ft., Atlantic Refining Co., Columbus, $1535; Sect. "H" Toledo-Angola Rd., surface treating with tar, 2.52 mi., Barrett Mfg. Co., Cleveland, $1969;

Hancock Co., surface treating with tar: Sect. "C", I. C. H. No. 220, length, 9280 ft. Sect. "B", I. C. H. No. 22, 6517 ft., Sect. "E", 5400 ft., Barrett Mfg. Co., Cleveland, $4247;

Hardin Co., surface treating with hot oil: Sect. "A" Marysville-Kenton Rd., 2 mi. Sect. "C" and "D" of Findlay-Kenton Rd., 2 mi., Atlantic Refining Co., Columbus, $2738;

Henry Co., Sect. "C" Holgate-Kifersville Rd., surface treating with tar, 2.05 mi., Barrett Mfg. Co., Cleveland, $1823;

Lake Co., Sect. "A" Painesville-Warren Rd., scarifying old road, widening to 14 ft., adding new stone to base and putting on 3-in. top course of asphalt macadam, 1.52 mi., J. C. DeVine Co., Alliance, $15,470;

Lawrence Co., Sects. "B" and "E" of I. C. H. No. 7 and Sects. "A" and "C" of I. C. H. No. 404, surface treating with bituminous material (tar), length Sects. "B" and "E", 1.73 mi., "A" and "C", 2.50 mi., Barrett Mfg. Co., Cleveland, $4040;

Lorain Co., Sect. "P" Oberlin-Norwalk Rd., constructing drainage structures, grading roadway and paving with asphalt macadam, Elyria Constr. Co., Elyria, $15,328; Hart & Kemp, Elyria, $14,839; Sect. "R" Oberlin - Elyria Rd. constructing drainage structures, grading roadway and paving with bituminous macadam, C. E. Williams, Grand Rapids, Mich., $16,847; Elyria Constr. Co., Elyria, $16,906;

Medina Co., Sects. "N" and "O" Cleveland-Wooster Rd., grading roadway and paving bituminous macadam, 3.4 mi., alternative bids were also received, G. S. Mellert, Medina, $27,821 and $26,765; Kennedy-Warner Co., Medina, $26,137;

Paulding Co., surface treating with cold oil: Sect. "C", I. C. H. No. 433, length 15,931 ft., Sect. "F", I. C. H. No. 427, 7320 ft., Sect. "D", I. C. H. No. 431, 5280 ft., Sect., "H", 5412 ft., Sect. "E", I. C. H. No. 425, 5296 ft., Atlantic Refining Co., Columbus, Ohio, $2,361;

Preble Co., surface treating with hot oil: Sect. "E" of Dayton--Indianapolis Rd., Sect. "C" of Hamilton-Eaton Rd., H. W. Curry & Co., Eaton, $4335;

Sandusky Co., Sect. "M" I. C. H. No. 275, length 13,489 ft. Sect. "H-2", 16,576 ft. Sect. "I-1", 17,950 ft., Sect. "K-1", 18,130 ft., Sandusky Co. on Sect. "J-3," 12,363 ft. surface treating with cold oil, Atlantic Refining Co., Columbus, $3607; Sect. "J-1" Fremont-Bellevue Rd., surface treating with tar, 3.21 mi., Barrett Mfg. Co., Cleveland, Ohio, $2862; Sect. "A-1", No. 227, 8115 ft.; Sect. "H" No. 22, 5572 ft.; Sect. "F" No. 281, 10,551 ft.; Sect. "N" No. 281, 5432 ft.; Barrett Mfg. Co., Cleveland, $5402; Sect. "E" Fremont-Perrysburg Rd., surface treating with cold oil, 1.44 mi., Atlantic Refining Co., Columbus, $608;

Shelby Co., Sect. "B-1" Piqua-St. Marys Rd., repairing substructure and superstructure of bridge, Boyer & Paul, Watkins, $1283; G. C. Hardin, Sidney, $1358;

Summit Co., Sects. "A" and "C" (macadam portion) Akron-Medina Rd., surface treating with bituminous material, Barrett Mfg. Co., Cleveland, $3545;

Williams Co., surface treating with tar: Sect. "A", No. 307, 9032 ft., Sect. "M" No. 303, $10,933 ft., Sect. "I" No. 311, 7919 ft., Barrett Mfg. Co., Cleveland, $5306.

★**O., Columbus**—A. Borden, ser. dir., let contract paving Maryland Ave. to A. G. Pugh, $28,991; 5th Ave. to Cleveland Trinidad Paving Co., 420 Lakeside Ave. N. E., Cleveland, $26,649.

Streets and Roads (Continued)

★**O., Findlay**—County let contract building stone roads as follows: Boss German and Smith Rds. to Orwick Bros.; Uhling and Orange Twp. Rds., C. L. Biggs; Worst and Houston Rds., Johnstone Bros.; Robinson Rd., McNeel & Son.

★**O., Kent**—City let contract paving 9000-sq.yd. streets, asphaltic concrete, to Federal Asphalt Paving Co., Hamilton, $27,854. Noted Apr. 26.

★**O., Lebanon**—City let contract paving 6545-sq.yd., vitr. brick, to H. Strodbeck, Middletown, $23,561.

★**O., Logan**—County let contract paving 2-mi. McArthur-Logan Rd., macadam, including concrete arch, twin span bridge and several small culverts to E. C. Roudebush, Logan, $35,000.

★**O., Marysville**—Co. Comrs. let contract building Wenger Rd., Darby and Jerome Twps. to C. Deihl, $17,200.

★**O., Middletown**—City let contract paving Cincinnati Pike to Biggler Bros., Middletown, $23,000.

O., Springfield—City received low bids paving streets (a) asphalt (b) aztec or texico (c) wood block, as follows: 1st portion Columbia St., R. J. Kavanaugh, 337 West Grand Ave., (a) $40,832 (b) $40,165; 2nd portion (a) $8489 (c) $10,315; Belmont St., Coffery & Cooney, (a) $11,865 (b) $11,695; High St., J. J. McHugh, 228 East St., (a) $14,381 (b) $14,077. Noted June 7.

★**O., Springfield**—City let contract paving portion North St. to F. M. Ryan. Noted May 24.

★**O., Wooster**—Co. Comrs. let contract paving Burton City Eastern Rd. to Lee, Briggs & Anderson, Millersburg, $20,847. Noted May 24.

★**Ind., Corydon**—County let contract building 5½ mi. stone road to G. C. Doolittle, Corydon.

★**Ind., Elkhart**—(Official) — Bd. Pub. Wks. let contract paving 2 streets, asphalt to Federal Asphalt Co., Hamilton, $24,150; 4 streets, brick, to Northern Constr. Co., Elkhart, $25,750. Noted May 10.

★**Ind., Rushville**—County let contract building 2 mi. roads to W. Rhineheintt, Rushville, $15,195.

★**Ind., Terre Haute**—Co. comrs. let contract building Patrick Malone Rd. to Carpenter Constr. Co., $53,719.

★**Mich., Flint**—County let contract building 12-im. concrete roads to R. D. Baker Co., Penobscott Bldg., Detroit; 13-mi. asphalt concrete roads to Globe Constr. Co., 106 West Water St., Kalamazoo. Total cost, $450,000.

★**Illinois**—State Highway Comn., Springfield, let contract building earth road, Carroll Co., to Gund-Graham Co., 54 East Stephenson St., Freeport, $13,208; gravel road, Putnam Co., to Concrete & Products Co., Granville, $5289; Bldg., Peoria Co., Route 2, Canterbury Bros., Peoria, $30,-282.

★**Ill., Berwyn**—City let contract paving Cuyler and Highland Aves. to H. G. Goelitz, 810 North Blvd., Oak Park. Noted May 10.

★**Ill., Chicago**—County let contract improving Dundee Rd., Wheeling and Northfield Twps., to A. Ward, Oak Glen.

★**Ill., Cicero**—Town let contract paving portion West 19th St. to H. G. Goelitz, 810 North Blvd., Oak Park, $21,747; portion West 16th St. to Peerless Engr. Constr. Co., 122 West Washington St., Chicago, $1729.

★**Ill., Joliet**—City let contract paving Wilcox and Comstock Sts. to Conway Constr. Co., $38,896 and $17,540 respectively.

★**Ia., Eldon**—City let contract paving 12,-750-yds. to Ford Paving Co., Cedar Rapids, $2.20 per yd.

★**Minn., Brainerd**—City let contract paving 17 blocks to E. A. Dahl & Co., Duluth. Noted May 10.

★**Minn., Duluth**—City let contract grading Farrell Rd. to D. H. Clough & Co., 914½ East 1st St. Noted June 14.

★**Minn., Rochester**—City let contract paving 1st, Monroe and State Sts. to Fielding & Shepley, University Ave., St. Paul.

★**Minn., St. Cloud**—City let contract paving 1st and 7th Aves. to General Constr. Co., 1254 Plymouth Bldg., Minneapolis.

★**Kan., Wichita**—City let contract paving streets to E. C. Stewart, $17,510; Security Paving Co., 1004 Orear-Leslie Bldg., Kansas City, Mo., $27,765.

★**Neb., Beatrice**—City let contract paving in Dists. 4, 25, 26 and 27 to Abel Constr. Co., Lincoln, $1.90 per yd., sheet asphalt, $1.70 asphaltic concrete.

★**N. D., Hettinger**—Co. comrs. let contract building roads to E. Texley, Stowers, and A. Leff, Reeder. Noted Apr. 12.

★**Mont., Helena**—City let contract paving portion Placer Ave. to D. C. Sweeney, $12,282.

★**Mo., Maysville**—City let contract paving streets to C. T. Petry, Marshall.

★**Ark., Russellville**—City let contract paving 24,000 sq.yd. in Paving Improv. Dist. No. 1 to J. B. Bateman, $30,369.

★**Okla., Okmulgee**—City let contract 6 blocks paving to Barrett Co., 1st St. N. W., and Campbell St., Kansas City, Mo. About $17,838. Noted June 14.

★**Colo., Boulder**—City let contract paving streets to Strange-Maguire Paving Co., Utah Savings & Trust Bldg., Salt Lake City, $90,000. Noted May 17.

★**Idaho, Lewiston**—Lewiston-Highway Dist. let contract building 9½-mi. highways to Mitchell Bros., Spokane, $68,073.

Ariz., Phœnix—City received low bid improving Washington and Roosevelt Sts. from D. Jones, $33,600.

★**Washington**—(Official) — State Highway Comn., Olympia, let contracts building portions of Pacific Highway as follows: Lewis Co., Toledo to Forest, to Hendricks & Ward, Centralia, $7240; Standard Transfer Co., Aberdeen, $39,626; Thurston Co., Highway No. 2-C, Independent Asphalt Paving Co., 2601 Railroad Ave., Seattle, $62,581; King Co., Orillia to Renton, P. J. McCormick, Seattle, $12,883.

★**Washington**—State Highway Comn., Olympia, let contract constructing Pacific Highway north from Junction, Jefferson Co., to Erickson Constr. Co., Downs Block, Seattle, $46,130.

★**Wash., Bellingham**—County let contract paving 12-mi. Northeast Diagonal highway to Washington Paving Co., Smith Bldg., Seattle, $192,000.

★**Wash., Seattle**—County let contract paving 5 mi. Bellevue-Medina-Houghton Highway to J. L. Smith, 1475 20th Ave., N., about $96,000. Noted May 31.

Wash., South Bend—Co. Comrs. received low bid building portion Permanent Highway No. 3-B from K. L. Goulter, Seaview, $19,812. Noted May 31.

★**Wash., Spokane**—County let contract paving Appleway between Dishman and Green Acres to C. M. Payne, Spokane, $56,270.

★**Wash., Tacoma**—City let contract paving streets and roads to American Lake military camp to Barrett Co., 17 Battery Pl., New York City.

★**Ore., Astoria**—Council let contract paving Kensington, 4th, 5th and 6th Sts. to J. H. Tillman, Portland, $13,147.

★**Ore., Coquille**—County let contract building 10-mi. highway between Glasgow and Hauser to Grant Smith & Co., Henry Bldg., Seattle, $60,000. Noted May 31.

★**Ore., Tillamook**—County let contract building Bayocean Highway to A. Arstill, $16,578.

California—State Highway Comn., Sacramento, let contract building roads in various counties as follows: Tulare Co. to G. S. Benson & Sons, 521 Stimson Bldg., Los Angeles; J. H. Shafer, 1614 Temple St., Los Angeles, M-R Co., Inc., 1104 Holingsworth Bldg., Los Angeles; Solano Co. to T. M. Olney, 356 Vernon St., Oakland; Santa Barbara Co. to W. A. Dontanville, Salina; Shasta Co. to Conners, Green & Co., Eureka; Ventura Co. to Conner Contr. Co., 709 Higgins Bldg., Los Angeles. Noted May 17.

Cal., Napa—County received low bids building 4.76-mi. concrete highway betwee Greenwood Hill and county line from W. J Schmidt, Cedar and Sacramento Sts., Berkeley, $68,000; Worwick Constr. Co., $85,000; A. Teichert & Sons, $86,000.

★**Cal., Quincy**—County let contract building highway, Beckwith Dist., to Plinco Copper Co. Noted May 24.

Cal., Redding—Bd. Supervs. received low bids building state highway from northern boundary to Hazel Creek, from Conners, Green & Co., Eureka, $140,001; R. Sherer, Pacific Electric Bldg., Los Angeles, $150,-148; Palmer & McBryde, $155,922. Noted Apr. 5.

Cal., Sacramento—Bd. Supervs. received low bids grading and paving Highway No. 1, Marysville Rd., from Contra Costa Constr. Co., 2323 Shattuck St., Berkley, $30,013 and M. Blumenkranz & Son, Stockton, $33,343. Noted May 31.

★**Cal., San Francisco**—City let contract improving McKinnon Ave. to Flinn & Treacy, 1st National Bank Bldg.

★**Cal., Santa Barbara**—City let contract paving various streets to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $84,516.

★**Cal., Santa Barbara**—County let contract grading highway to Jalama Ranch to R. Sherer, Pacific Electric Bldg., Los Angeles, $10,000.

★**Cal., Seal Beach**—(Official)—City let contract paving portion Main St. and Ocean Ave. to Wells & Bressler, Santa Ana, 11½c. per sq.ft., $75 for culverts.

★**Cal., Ventura**—County let contract paving Div. 11, Ventura Co. Highway, to C. H. Hudson, Trust & Savings Bldg., Los Angeles, $14,081.

★**Ont., Amherstburg**—City let contract laying rein.-con. pavements during year to A. Pettypiece, Ltd., $50,000.

RAILWAYS—STEAM & ELECTRIC

Proposed Work

Georgia—Savannah & Atlantic Ry., will increase its capital stock from $50,000 to $2,500,000, and will spend $1,750,000 for developments and extensions. L. B. Ackerman, Savannah, ch. engr.

Florida—Florida East Coast R.R. soon begins construction on extension from Homestead to Cape Sable regions. E. B. Carter, St. Augustine, ch. engr.

Louisiana—New Iberia & Northern R.R. plans extension from Charenton to Patterson, about 20-mi.; also from Patterson to Morgan City, about 4-mi. W. E. Guy, 401 Locust St., St. Louis, vice-pres.

Utah—Pub. Utilities Comn. of Utah granted permission to Salt Lake & Utah R.R. to construct line from Granger to Magna. W. C. Orem, Salt Lake City, mgr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**West Virginia**—(Official)—Virginia Ry. let contract 6-mi. double track work on 6-mi. line near Herndon to Rinehart & Dennis Co., Jefferson Natl. Bank Bldg., Charlottesville, Va.

★**Wisconsin**—Minneapolis, St. Paul & Saulte Ste. Marie let contract grading cut-off at Chippewa Falls to Roberts Bros., 17 North La Salle St., Chicago. About $100,000.

★**Idaho**—Oregon Short Line let contract 2 feeder lines, 1 from Lincoln on new loop line southward and to east of Idaho Falls joining main Montana branch at Firth, about 30 mi.; also line from Idaho Falls 7-mi. northwest, to Utah Constr. Co., Phelan Bldg., San Francisco.

★**California**—Western Pacific R.R. let contract reconstructing line on Nevada-California-Oregon Ry., between Chilcoot and Reno, Nev., to Utah Constr. Co., Phelan Bldg., San Francisco. Noted May 17.

EXCAVATION AND DREDGING

Proposed Work

Fla., Miami—Reclamation—Southern D.D. plans to reclaim 120,000 acres. G. T. Morgan, secy.

Miss., Yazoo City—Reclamation—Rocky Bayou D. D. will be organized to reclaim 17,000 acres land. Address Co. Comrs.

O., Marion—Ditch—Marion and Wyandot Cos. made surveys Big Tymochtee Creek Ditch. Bonds for $81,000 will be sold Aug. 3.

Ill., Morris—Drainage—W. H. Zarley, Joliet, is engineer for Claypool D. D., formed to drain land in Grundy and Will Cos., taking in towns of Coal City and Wilmington. About $74,000.

Ia., Storm Lake—Drainage—Buena Vista, Calhoun, Pocahontas and Sac Cos. plan joint drainage dist. About $1,000,000.

Neb., Scottsbluff—Drainage—Scottsbluff D. D. having plans prepared 4000 acres open ditch work. Bids in August. About $25,000. C. A. Liljenstolpe, Scottsbluff, engr.

S. D., Sioux Falls—See "Reinforced Concrete."

Ore., Portland—See "Sewers."

Cal., Auburn—Irrigation—Horne Development Co. plans dams on Painter and Buckhorn Creeks to impound water for irrigation purposes. About $71,000.

Cal., Lassen—Canals and Dam—Baxter Creek Irrigation Dist. plans to issue $310,-000 bonds to construct canals and dam. Bids will soon be received. H. S. Martin, ch. engr.

Excavation and Dredging (Continued)

Cal., Modesto—Dam—F. C. Herrmann, Merchants Exchange Bldg., San Francisco, will supervise enlargement of LaGrange Dam for Modesto Irrigation Dist.

Cal., Susanville—Irrigation—Baxter Creek Irrigation Dist. voted $310,000 bonds to install irrigation system.

Ont., Tilbury—Drainage—Twp. Council plans tile drainage work. About $100,000. H. J. Rocheleau, Stony Point, clk.

BIDS DESIRED

N. J., Trenton—Dredging—Until July 2 by Dept. Commerce and Navigation for dredging section of proposed inland waterway connecting Barnegat Bay with Manasquan River. About $50,000 available. J. C. Payne, ch. engr. Noted June 14.

N. C., Wilmington—Drainage—Until June 25 by W. E. Price, chn. bd. drainage comrs., for 9-mi. drainage ditches in D. D. No. 3.

Mich., Sturgis—(Official) — Dredging — Until June 28 by Bd. Pub. Wks.; advertised in this issue.

Ill., Newton—Drainage—Until June 30 by Comrs. North Fork D. D., c/o Fithian & Koserman. E. F. Mail, engr.

Ill., Savannah—(Official) — Drainage — Until July 6 by F. J. Stransky, atty., Savannah & York D. D., furnishing all material, machinery and labor for pump house and appurtenances, pumping machinery, electrical apparatus and auxiliaries; also alternative bids on an oil engine driven or steam driven plant. E. T. Perkins, 1210 1st Natl. Bank Bldg., Chicago, engr.

Ill., Tuscola—Drainage—Until June 30 by Comrs. D. D. No. 8, including about 8640-ft. tile various sizes. W. E. Price, Court House, engr.

Ia., Glenwood—(Official)—Ditch—Until July 18 by R. E. Humphrey, co. aud., for Silver Creek Ditch No. 1; advertised in this issue.

Ia., Grundy Center—Drainage—Until July 2 by Rd. Supervs., for D. D. No. 2, requiring 8500-ft. 8-in. to 15-in. tile. Former bids rejected. Noted May 24.

Minn., Redwood Falls—(Official)—Ditch—Until June 29 by L. P. Larson, co. aud., for Ditch No. 38, about 155,120-cu.yd. excavation. About $18,614. Noted May 31.

Minn., St. Cloud—Excavation—Until July 20 by N. Thomey, co. aud., for County Ditch No. 41, requiring 7764 cu.yd. excavation and furnishing and laying 8850-ft. of 12-in. tile; 1 24-in. drain head, and 1 10-ft. 16-in. terminal box.

Cal., Salinas City—Reclamation—Until June 28 by Bd. Trustees of Reclamation Dist. No. 1665. L. G. Hare, Salinas City Bank Bldg., ch. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston — Dredging — Comn. on Waterways and Public Land, State House, received bids, June 14, dredging 17,000 cu.yd. material in Glouster Harbor, from Gerrish Dredging Co., 101 Tremont St., 34c. per cu.yd.; Boston Dredging & Contr. Co., 40 Central St., 37c.; Bay State Dredging & Contr. Co., 247 Atlantic Ave., 38c.

★**Fla., Tallahassee**—Canals—Bd. Comrs. Everglades D. D. let contract Dania cut-off canal to Magathlin & Clark, Miami; Miami, South and New River canals to Bowers Southern Dredging Co., Galveston. About $1,000,000 available. Noted May 24.

★**Ind., Peru**—Ditch—County let contract Phillip Miller Ditch, requiring 3300-ft. tile, to C. Weis, Peru. Noted May 17.

★**Ind., Rochester**—(Official)—Ditch — B. Hay, constr. comr., let contract William Johnson Ditch to A. C. Davission, Rochester, $86,475. Noted June 7.

★**Ill., Rushville**—Ditch and Levee—Comrs. Kelly Lake Drainage and Levee Dist. let contract to M. J. O'Meara & Sons, Collom.

★**Ill., Savannah**—(Official)—Drainage—Savannah and York D. D. let contract to H. P. Johnson, Sterling. About $19,000. Noted May 24.

★**Ia., Mason City**—Drainage—County let contract D. D. No. 44, tile, to Cement Products Co., Spencer, labor to O. Jensen, Clear Lake. Noted May 31.

★**Minn., Ada**—Ditch—County let contract County Ditch No. 42 to Strom & Degerness, Ada, including 94,353-cu.yd. excavation. Noted May 31.

★**Minn., Long Prairie**—Ditch—See "Structural Steel."

★**Neb., Omaha**—Dredging—City let contract dredging Indian Creek to E. A. Wickham, Omaha, $25,000.

★**S. D., Madison**—(Official) — Ditch — Comrs. Lake and Moody Cos. let contract open work to Northern Minnesota Drainage Co., Litchfield, Minn. Noted May 17.

★**S. D., Woonsocket**—Drainage—Sanborn Co. D. D. No. 28 let contract 5.4 mi. tile drain to T. Larsen, Callender, Ia., D. D. No. 30 to Myrmo Bros., Sioux Falls.

★**Wash., Enumclaw**—Drainage—Comrs. D.D. No. 6, New York Blk. Seattle, received low bids, draining 2000-acres land near Enumclaw, from D. A. Foley & Co., Aitken, Minn., (Seattle office, Hotel Butler); Tweedin & Mills, Tacoma, $42,531; R. J. Elliott, Seattle, $41,157.

INDUSTRIAL WORKS

Proposed Work

Mass., Malden—Fitz, Dana & Co., 110 North St., Boston, plans warehouse at Commercial and Medford Sts. About $100,000.

N. Y., Buffalo—McDougall Paint Co., 1317 Elk St., had plans prepared 3-story addition, Water, Evans and North Sts. S. McDouglas, pres.

N. Y., Jamestown—Cleveland Worsted Mills, 5932 Bway., S. E., had plans prepared for factory and dye house. About $500,000.

N. Y., Long Island City—L. Cohen, 212 5th Ave., New York City, had plans prepared for 3-story, 80 x 160-ft. brick factory, William St. About $55,000.

N. Y., Long Island City—Huddleston & Mash Mahogany Co., 33 West 42nd St., New York City, having plans prepared by E. Hahn, Queens Plaza Court Bldg., for 3-story, 100 x 100-ft. brick storage and office building.

N. Y., Port Richmond—Staten Island Shipbuilding Co., 1 Bway., New York City, plans 1-story addition to shop and 1-story brick foundry here to cost $40,000 and $25,000 respectively.

N. J., Camden—See "Reinforced Concrete."

N. J., Harrison—Crucible Steel Co. of America, South 4th St., having plans prepared by W. H. Taylor, archt., 1-story, 200 x 400-ft., brick and steel forge building, South 4th St. and Pennsylvania R.R.

N. J., Kingsland—(Rutherford P. O.)—Bridgeman Smith Co., 487 Kent Ave., Brooklyn, N. Y., having plans prepared for paper box factory here. About $250,000.

N. J., Newark—Universal Smelting & Refining Co. plans 110 x 450-ft. brick and steel factory, 154 Charles St. About $154,000.

Pa., Hershey—See "Reinforced Concrete."

Pa., Palmerton—New Jersey Zinc Co., 55 Wall St., New York City, retained Donn & Deming, archts., 800 17th St., Wash., D. C., to prepare plans 3-story laboratory. About $200,000.

Pa., Phila.—J. Daly, Jr., Finance Bldg., plans 3-story, 74 x 120-ft. garage, Rosewood St. About $80,000.

Pa., Phila.—Edgewater Finishing Co., Nicetown Lane and Frankford Ave., plans 4-story, 100 x 157-ft. addition.

Pa., Phila.—Pearce Arrow Tire & Rubber Mfg. Co., 406 East Rittenhouse St., Germantown, had plans prepared by J. O. Hunt, 114 Montgomery St., Trenton, N. J., for factory. About $150,000.

Pa., Pittsburgh—Crucible Steel Co., Oliver Bldg., plans new mill at its Lawrenceville Works. About $125,000.

Pa., Reading—Reading Steel Castings Co., Tulpehockin St. and Lehigh Valley R.R., plans 1-story, 40 x 150-ft. addition to cleaning mill. About $100,000. W. H. Dechant & Son, archts., 520 Court St., soon receives bids.

Pa., Steelton—See "Reinforced Concrete."

N. C., Shelby—Cade Mfg. Co. increased its capital stock from $50,000 to $1,500,000, and plans factory to manufacture Cade compotype and typesetting machines.

Ga., Savannah—Natl. Shipbuilding & Drydock Co., recently incorporated with $300,000 capital stock, plans plant.

O., Cincinnati—Laidlow Works of Worthington Pump & Machinery Co., 1504 1st Natl. Bank Bldg., plans, 6-story, 60 x 180-ft. addition, Elmwood Pl. and Carthage Ave. About $100,000. B. Baldwin, archt., 72 Perin Bldg., 6th and Race Sts., soon receives bids. Noted May 17.

O., Dayton—Rike-Kumler Co., 2nd and Main Sts., plans 5-story warehouse, 3rd and Madison Sts. About $96,800.

Ind., Bloomington—A. Beck, Ada., Okla., plans cement plant here. About $200,000.

Ind., Elkhart—Lampson Motor Truck & Tractor Co., 141 West Jackson Blvd., Chicago, plans large factory.

Ind., Indianapolis—Nordyke-Marmon Co., Kentucky Ave. and Morris St., retained Zettel & Rapp, archts., 31 East 5th St., Cincinnati, to prepare plans 1-story, 200 x 300-ft. factory.

Mich., Detroit—Briggs Mfg. Co., Leuschner Ave., increased its capital stock from $50,000 to $750,000, and plans addition.

Wis., Madison—Jacobsen & Austin Auto Co., 207 East Washington Ave., retained J. R. Law, archt., to prepare plans 4-story, 83 x 113-ft. garage and repair shop. About $50,000.

Wis., Milwaukee—See "Reinforced Concrete."

Wis., Sheboygan—Arndt Bros. having plans prepared by Juul & Sixta, archts., Imigrants Blk., for 4- and 5-story, 50 x 75-ft. mill, 60 x 125-ft. warehouse and 50 x 100-ft. elevator., all brick and rein.-con. About $50,000. Soon receives bids.

Ia., Cedar Rapids—Quaker Oats Co. plans to spend $1,000,000 for improving its plant and installing new machinery.

Kan., Wichita—Kansas City Gas & Electric Co., 233-239 South Main St., will erect 2 55,000-gal. oil tanks. About $75,000. H. P. Wright, pres.

Mo., St. Louis—Dorris Motor Car Co., 4100 Laclede St., reorganized and increased its capital stock from $300,000 to $1,000,000, and will construct additions. A. C. Schmidt, secy.

Ark., Ft. Smith—S. P. Harding and associates, plan glass plant. About $250,000.

Ark., Ft. Smith—Model Window Glass Co. plans brick and mill factory. About $75,000. C. P. Zenor, genl. mgr.

Tex., Beaumont—Deutzer Furniture Co., 206-216 Crockett St., plans 4-story, brick and concrete plant. About $50,000.

Okla., Ada—Oklahoma Power & Transmission Co. plans hydro-electric plants at Ada and Shawnee to develop 10,000-kw. About $500,000.

Wash., Cheney—Martin Grain & Milling Co. plans brick and concrete flour mill, 500-bbl. capacity. About $75,000.

Wash., Seattle—Libby, McNeil & Libby Co., 227 Jackson St., plans canning plant and dock on Lake Union, foot of Roanoke St. About $60,000.

Wash., Spokane—Union Match Co., West Duluth, plans 2-story, 60 x 120-ft. box factory, Sprague Ave., near city limits. About $60,000.

Ore., Independence—Utah-Idaho Sugar Co., Vermont Bldg., Salt Lake City, Utah, plans factory here.

BIDS DESIRED

N. Y., Dunkirk—(Official)—Until June 29 by State Conservation Comn., 156 State St., Albany, for fish hatchery; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., North Vassalboro**—American Wool Co., Natl. Shawmut Bank Bldg., Boston, let contract 5-story, 68 x 247-ft. addition to E. W. Pitman, Bay State Bldg., Lawrence, Mass.

★**Vt., Highgate**—Village of Swanton let contract power plant to H. P. Cummings Con. Co., Woodsville, N. H., $75,000.

★**Mass., Lawrence**—H. P. Hood & Sons Co., 494 Rutherford Ave., Charlestown Dist., Boston, let contract creamery to J. W. Bishop Co., 683 Atlantic Ave., Boston, $50,000.

★**Mass., New Bedford**—See "Reinforced Concrete."

★**R. I., Woonsocket**—Woonsocket Spinning Co. let contract 1-story, 128 x 210-ft. brick mill, with separate 22 x 32-ft. boiler house to W. Aubin, Diamond Hill Rd.

★**Conn., Naugatuck**—Rubber Regenerating Co., Elm St., let contract warehouse to J. N. Bishop Co., 109 Foster St., Worcester, Mass., $75,000.

★**N. Y., Brooklyn**—American Machine & Fdry. Co., 56th St. and 2nd Ave., let contract 4-story, 120 x 150-ft. factory to H. D. Best & Co., 52 Vanderbilt Ave., New York City.

Industrial Work (Continued)

★**N. Y., Brooklyn**—See "Reinforced Concrete."

★**N. Y., Long Island City**—See "Reinforced Concrete."

★**N. Y., New York**—Manhattan Brass Co., 33 East 26th St., let contract 7-story plant to C. A. Cowen Co., 30 East 42nd St.

★**N. Y., Rochester**—T. H. Symington Co., Lincoln Park, let contract addition, Atlantic Ave., to A. Fredericks & Son Co., Mill and Andrew Sts., $50,000.

★**N. Y., Trenton Falls**—Utica Gas & Electric Co., Genesee St., Utica, let contract addition to hydro-electric power plant to Structural Concrete Co., Dayton, O.

★**N. J., Hoboken**—Delaware, Lackawanna & Western R.R. let contract engine terminal at 16th and Henderson Sts., including 1-story brick engine house, boiler house, shop, concrete turntable pit and retaining wall, to R. D. Richardson Constr. Co., Connell Bldg., Scranton, Pa., $50,000.

★**N. J., Newark**—See "Structural Steel."

★**Ky., Maysville**—R. J. Reynolds Tobacco Co. let contract plant to E. F. Hettrick Engr. Co., Empire Bldg., Birmingham, Ala. $100,000.

★**Ill., Chicago**—Turner Mfg. Co., 1444 South Sangamon St., let contract 3-story plant to J. W. Snyder Co., 122 South Michigan Ave. Noted May 31.

★**Wis., Green Bay**—Alart & McGuire, let contract 1-, 2- and 3-story, 100 x 300-ft., brick and rein.-con. pickling and cold storage plant to Fabry Constr. Co., Green Bay.

★**S. D., Frankfort**—Frankfort Mill & Elevator Co. let contract large elevator to H. M. Hickok & Sons, 818 Flour Exchange, Minneapolis.

★**Wash., Yakima**—Appleton Milling Co., 606 Palace Bldg., let contract flour mill to Rabehl Bldg. Co., 2952 Nicollet Ave., all of Minneapolis. About $65,000.

BUILDINGS

Proposed Work

N. H., Durham—Commons Building—State Agricultural College will receive bids in July, 2- and 3-story. About $100,000. E. T. Huddleston, c/o college, archt. Noted May 3.

Mass., Fall River—Theater and Store—Lyric Theater, 1336 Pleasant St., plans. About $100,000. L. G. Destremps & Son, archts., 58 Bedford St., soon receives bids.

R. I., Pawtucket—Club—Pawtucket Lodge of Elks purchased site, Montgomery and Exchange Sts., and will build. About $75,000.

Conn., Darien—School—Bd. Educ. rejected bids, 1-story, 17 x 60-ft. About $50,000. Sunderland & Watson, Library Ave., archts. Noted May 24.

Conn., Norwalk—Grammer School—Bd. Educ. rejected bids, 2-story, 60 x 112-ft. About $50,000. Sunderland & Watson, Library Ave., archts. Noted June 7.

Conn., Stamford—School — School Bd. plans 2-story. About $85,000. Emmons & Abbott, archts., 1 Bank St., soon receives bids.

N. Y., Bronxville—Hospital—Lawrence Hospital, c/o D. B. Lawrence, Pondfield Rd., having plans prepared by McKim, Mead & White, archts., 101 Park Ave., New York City, 3-story, 35 x 180-ft., brick and stone addition, with 35 x 75-ft. wing.

N. Y., Brooklyn—Parish House—Lafayette Ave. Presbyterian Congregation having plans prepared by Clark & Arms, archts., 21 West 45th St., New York City, 4-story, 40 x 90-ft., South Oxford St. About $85,000.

N. Y., Hudson Falls—High School—Bd. Educ. having plans prepared by Waite & Copeland, archts., 46 Corn Hill St., Boston, on Main St.

N. Y., Niagara Falls — Tubercuiosis Houses—County had plans prepared by C. Phelps, archt., 523 Gluck Bldg., 2-story, 92 x 120-ft., at poor house farm. About $288,000.

N. Y., Poughkeepsie—Store and Office—Morgan House Corp., 45 Market St., having plans prepared by W. J. Beardsley, archt., 49 Market St., 3-story, 60 x 60-ft., Main St. About $100,000.

N. Y., Richmond Hill—Church—Richmond Hill Baptist Congregation having plans prepared by Helmle & Corbett, archts., 190 Montague St., Brooklyn, 1-story, brick, Stoothoff Ave. and Fulton St. About $60,000.

N. Y., Yonkers—School—Bd. Educ. had plans prepared by G. H. Chamberlin, archt., 18 South Bway., Yonkers, 3-story, 80 x 170-ft., on Van Cortlandt Park Ave. About $50,000.

N. J., Elizabeth—Hospital — Elizabeth General Hospital plans. About $500,000.

N. J., Trenton—Bank—Merchants Trust Co., 203 South Broad St., having plans prepared by Kleeman & Fowler, archts., 1st Natl. Bank Bldg., 1-story, 35 x 90-ft. About $100,000.

Pa., Enola—High School—Bd. Educ. plans, 2-story, 80 x 146-ft. About $100,000. C. H. Lloyd, archt., Telegraph Bldg., 216 Locust St., Harrisburg, soon receives bids. Noted May 3.

Pa., Scranton—3rd Natl. Bank, 118 Wyoming Ave., plans 1- and 3-story, 65 x 80-ft. About $80,000. E. Langley, archt., Scranton Life Bldg., soon receives bids. Noted June 7.

Del., Newark—Dormitory—Delaware College plans 4-story, 39 x 48-ft. with 2 wings, 2-story, 30 x 33-ft. and 2 wings, 3-story, 33 x 87-ft. Day & Klauder, archts., 925 Chestnut St., Phila., soon receives bids. Noted May 31.

Del., Wilmington—Bank—Security Trust Co., 6th and Market Sts., having plans prepared by E. C. May, archt., Du Pont Bldg., 2-story, 50 x 52-ft., brick and marble addition.

Md., Baltimore—See "Reinforced Concrete."

Md., Hagerstown—Y. M. C. A. had plans prepared for building. About $150,000. J. C. Byron, Negley Bldg., chn. bldg. com. Noted May 10.

Va., Salem—Y. M. C. A. plans building. About $60,000.

W. Va., Beckley—High School—M. R. Jennings, secy. bd. educ., soon receives new bids, 3-story, 99 x 134-ft. About $55,000. W. H. St. Clair, Fleetwood Hotel, archt.

W. Va., Grantsville—High and Grade School—Bd. Educ. had plans prepared by S. W. Ford, archt., Union Bank Bldg., Clarksburg. About $90,000.

W. Va., Parkersburg—School—Bd. Educ. having plans prepared by F. L. Packard, archt., New Hayden Bldg., Columbus, O. About $175,000.

S. C., Greenville—Hospital—Bd. Governors, City Hospital, having plans prepared by E. C. Wachendorff, archt., Empire Bldg., Atlanta, Ga. About $60,000.

Ga., Atlanta—Hotel—H. Richardson, 66½ North Forsyth St., plans 9-story, concrete and tile, Ivy and Ellis Sts. About $200,000. H. K. Chapman, archt., 134 East Ave., preparing plans.

Fla., Miami—Schools—City voted $150,000 bonds to build additions to Beuna Vista, Riverside, and Highland Park Ward Schools and to erect school to take place of 2nd St. building.

Fla., St. Petersburg—Grade School—Bd. Educ. had plans prepared by W. B. Ittner, archt., 911 Locust St., St. Louis, Mo. About $100,000.

Fla., Tarpon Springs—Cathedral—Greek Congregation plans. About $50,000.

Ala., Birminghan—Hospital—Tennessee Coal, Iron & R.R. Co. plans. About $425,000. G. W. Drach, archt., Union Trust Bldg., Cincinnati, preparing plans.

Tenn., Cumberland—University—Lincoln Memorial University of Cumberland Gap, c/o H. C. Hubbell, 716 1st Natl. Bank Bldg., Cincinnati, plans, 2- or 3-story. About $60,000. A. L. Fechheimer, archt., 1534 Union Trust Bldg., Cincinnati, soon receives bids.

O., Alliance—(Official)—Club and Store—Fraternal Order of Eagles, 647 South Liberty Ave., will construct, 4-story, 40 x 110-ft., on Main St. About $75,000. W. W. Matchett, archt., Main St., will receive bids in December. Noted June 7.

O., Carey—Church—Shrine of Our Lady of Consolation Congregation plans 1½-story, 125 x 150-ft. About $85,000. J. J. Gander, archt., 61 State St., Albany, soon receives bids. Noted May 24.

O., Columbus—Hotel and Store—T. M. Hardesty, Southern Hotel, having plans prepared by F. Elliott, archt., Chamber of Commerce Bldg., 58 x 72-ft. About $250,000.

O., Oxford—Church—St. Marys Congregation having plans prepared by H. McClorey, Gerke Bldg., Cincinnati, 2-story. T. Bailey, pastor.

O., Plymouth—(Official)—High and Grade School—City defeated bonds to build high and grade school. Althaus & Jones, Market Bldg., Mansfield, archts. Noted June 7.

O., Springfield—Office—Brier Hill Steel Co., Stambaugh Bldg., receives bids about June 15, 4-story, West Federal St. About $250,000. W. A. Thomas, pres. J. L. Decker, Stambaugh Bldg., archt.

O., Youngstown—Store and Office—R. O. King, King Bldg., receives bids about June 15, 6-story, 50 x 90-ft., brick and rein.-con., Fountain and High Sts. About $70,000. R. C. Gotwald, 52 Gotwald Bldg., archt.

Ind., Anderson—Lodge—B. P. O. Elks plans, 2-story, 70 x 100-ft. About $100,000. C. D. M. Lane, archt., 301 Robinson Bldg., Rock Island, soon receives bids.

Ind., Elkhart—Bank—1st Natl. Bank had plans prepared by H. R. Wilson & Co., archts., 2-story, 60 x 150-ft. Noted Apr. 19.

Ind., Greencastle—School—Bd. educ. retained H. L. Bas, archt., Hume-Mansur Bldg., Indianapolis, to prepare plans. About $100,000.

Ind., South Bend—Church and Parsonage—Trinity Congregation, 718 East Colfax Ave., soon lets contract, 1-story, 65 x 118-ft. About $50,000. J. S. Burns, pastor. S. R. Badgeket, Wise Bldg., Cleveland, archt.

Mich., Detroit—Bank and Hotel—Washington Hotel Co. having plans prepared by Holabird & Roche, archts., 104 South Michigan Ave., Chicago, 20-story. Pres., F. E. Elsworth, Henry Clay Hotel.

Mich., Detroit—Club — Tippecanoe Athletic Club, c/o S. A. Erwin, 816 Free Press Bldg., retained Wells & Balle, archts., 1602 Ford Bldg., to prepare plans, 12-story, 70 x 130-ft. About $1,500,000.

Mich., Flint—School—Bd. educ. had plans prepared by Malcomson & Higginbotham, archts., Moffat Bldg., Detroit, 2-story, 72 x 179-ft. About $110,000. Noted Apr. 5.

Mich., Lansing—Hotel—Hotel Wentworth, 201 East Michigan Ave., had plans prepared by J. M. Churchill, archt., Oakland, Bldg., 4-story, 32 x 125-ft. addition with 2 wings, 36 x 107-ft.

Ill., Chicago—Hotel—Kusel & Harris, 30 North La Salle St., soon receives bids, 4-story, 100 x 256-ft. About $225,000. R. C. Harris, 79 West Monroe St., archt.

Ill., Chicago Heights—Hotel and Store—C. H. Thomas, 69 East 14th St., plans, 4-story, 70 x 122-ft., to be called "Hotel Thomas." H. H. Richards, archt., 327 South La Salle St., Chicago, soon receives bids.

Ill., East Moline— Y. M. C. A. plans, 4-story, 82 x 101. About $100,000. W. E. Mack, Ross Bldg., secy. Whitsitt & Schulzek, Peoples Bank Bldg., Moline, archts.

Ill., Highland Park—Lodge and Store—A. O. Fay Lodge No. 676, A. F. & A. M., plans, 2-story, 50 x 119-ft. About $50,000. Holmes & Flynn, archts, 8 South Dearborn St., Chicago, soon receives bids.

Ill., Monmouth—Y. M. C. A. having plans prepared by C. D. McLane, archt., Robinson Bldg., Rock Island, for 3-story, 75 x 140-ft. building. About $75,000. R. C. Smedley, 203 South 1st St., secy. Noted Apr. 26.

Ill., Peoria—Hotel—Jefferson Hotel Co., Jefferson and Liberty Sts., had plans prepared by Hewitt & Emerson, archts., 321 Main St., for 5-story, 53 x 68-ft. annex. About $75,000.

Ill., Springfield—Temple—Illinois Federation of Labor plans. About $200,000. J. H. Walker, pres.

Wis., Dousman—Home—Wisconsin Masonic Home having plans prepared by A. D. Kock, archt., Wells Bldg., Milwaukee, 2-story, 250 ft. long and 3 wings, 40 x 100 ft. About $125,000. A. E. Matheson, Janesville, chn.

Wis., Racine—Theatre, etc.—Tullgren-Brachmann Syndicate, Milwaukee, soon receives bids, 3-story, 100 x 240-ft. theatre, office and business block, Monument Sq. About $125,000. M. Tullgren & Son, archts., 1236 1st Natl. Bank Bldg., Milwaukee, prepared plans.

Wis., Racine—Armory and Auditorium—City plans 2-story, 112 x 245-ft. brick, stone, steel trussed. About $100,000. A. A. Guilbert, archt., soon receives bids. Noted Apr. 19.

Wis., Stevens Point—High School—Bd. Educ. having plans prepared by R. A. Messmer & Bro., archts., Majestic Bldg., Milwaukee, 3-story, 76 x 110-ft. addition. About $75,000. H. C. Welty, secy.

Wis., West Allis—High School — Bd. Educ. had plans prepared by R. A. Messmer & Bros., archts., Majestic Bldg., Milwaukee. About $200,000.

Ia., Bronson—School—Bd. Educ. retained Beuttler & Arnold, archts., 609 Security Bldg., Sioux City, to prepare plans. About $50,000. Noted May 31.

Buildings (Continued)

Ia., Columbus Junction — High School—Bd. Educ. voted $90,000 bonds to build high school. A. Mulburn, secy.

Ia., Mason City—School—Bd. Educ. had plans prepared by J. H. Felt & Co., archts., 800 Grand Ave., Temple, Kansas City, Mo. About $100,000. R. L. James, secy. Noted May 24.

Ia., Mingo—School—Bd. Educ. Consolidated Dist. will hold election June 30 to vote on $60,000 bonds to build school. Noted May 31.

Ia., Sioux City—Church—1st Baptist Congregation having plans prepared by Beuttler & Arnold, archts., 609-10 Security Bldg., 1-story. About $75,000.

Minn., Chisholm—Auditorium—B. E. Culver, recdr., receives bids in July, 1- and 2-story, 87 x 125-ft., 3rd Ave. and Chestnut St. About $64,000. O. A. Puck, Torrey Bldg., Duluth, archt.

Minn., Duluth—Schools—City will hold election July 21 to vote on $250,000 bonds to build schools. C. A. Bronson, clk bd. educ.

Minn., Pipestone — High School — Bd. Educ. having plans prepared by H. L. Lockhart, archt., 391 Endicott Bldg., 2-story, 75 x 96-ft. About $250,000. Noted May 3.

Minn., Rochester — School — City voted $128,000 bonds to build school. E. Bratager, clk. Noted May 17.

Kan., Concordia—High and Grade Schools—City voted $75,000 bonds to build high school and 2 grade schools. W. E. Hulse & Co., Hutchinson, archts.

Kan., Scott City—Court House—Co. plans election, June 26 to vote on $50,000 bonds to build.

Kan., Smith Center—Court House—County plans. About $85,000. T. W. Williamson & Co., 416 Central Natl. Bank Bldg., Topeka, archts.

Kan., Wichita—High School—Bd. Educ. plans, 2-story, brick and stone. About $115,000. L. Schmidt, 121 North Market St., archt.

S. D., Sioux Falls—Bank and Office—Sioux Falls Natl. Bank, rejected bids; project suspended indefinitely. About $250,000. Weary & Alford Co., 1907 South Michigan Ave., Chicago., archts. Noted Apr. 19.

N. D., Minot—City Hall—City election June 25 to vote on $185,000 bonds to build school and new reservoir, and improve streets.

Wyo., Casper—City Hall—City voted $55,000 bonds to build city hall; $75,000 to extend and improve water and light plants; $140,000 to install storm sewers.

Mont., Livingston—High School—City voted $68,000 bonds to build high school. Noted May 24.

Mo., Fulton—Chapel—Westminster College, c/o E. E. Reed, pres., soon receives bids, brick. About $55,000. Holmes & Flynn, 8 South Dearborn St., Chicago, archts.

Mo., Kansas City—Schools—Bd. Educ. voted $2,000,000 bonds to build schools. J. B. Jackson, Jr., 9th and Locust Sts., secy. Noted May 17.

Ark., Little Rock—Theatre—Royal Theatre having plans prepared by T. M. Sanders, archt., 39 Urquhart Bldg., rebuilding. About $150,000.

Tex., Breckenridge—School—City voted bonds to build school.

Okla., Muskogee—Y. M. C. A. having plans prepared 3-story building. About $50,000. Contracts will soon be let.

Okla., Oklahoma—Liberal Arts Building—City and Oklahoma State Exposition Co. plans, 1-story, 200 x 300-ft. brick and reinforced con. About $100,000. Layton & Smith, 701 Majestic Bldg., archts.

Okla., Sapulpa—(Official)—High School—J. W. Youngman, secy. bd. educ. will receive bids about July 1, 3-story, 115 x 170-ft. About $175,000. C. A. Popkin, archt. Noted May 17.

Okla., Tulsa—Shrine Temple — Akdar Temple having plans prepared by Pucky & Jenkins, archts., 6 North Michigan Ave., Chicago, 3-story. About $250,000.

Colo., Denver—Schools—Bd. Educ. plans to improve and repair schools during summer. About $132,000.

Cal., Huntington Park—Schools — City voted $78,000 bonds to construct schools.

Cal., Long Beach—Schools—City will hold election July 10 to vote on $100,000 bonds to build grammer school and $50,000 to build high school.

Cal., Manteca—Bank—See "Reinforced Concrete."

BIDS DESIRED

R. I., Woonsocket—School—Until June 26 by J. J. Gearron, chn. bldg. com., brick, 5th Ave. About $55,000. Noted June 7.

N. Y., New York—High School—Until June 27 by C. B. J. Snyder, supt. schools, Park Ave. and 59th St., for Evander Childs High School, East 184th St. and Field Pl., between Creston and Morris Aves., Bronx Boro.

N. Y., North Tarrytown—Hospital—Until June 26 by H. B. Herts, archt., 507 5th Ave., New York City, for 3-story, 150 x 350-ft., brick and stone, for Isaac L. Rice Memorial Hospital for Convalescents, c/o I. L. Rice, 61 Bway., New York City. About $400,000. Noted May 24.

Pa., Phila.—(Official)—Station Buildings—Until July 10 by W. S. Twining, dir. dept. city transit, removal and erection of buildings; advertised in this issue.

O., Mt. Vernon—Infirmary—Until June 26 by T. E. Davey, Oak and 9th Sts., Columbus, 2-story, at Ohio State Sanitarium, Mt. Vernon. Richards, McCarty & Bulford, Hartman Bldg., Columbus, archts. Noted June 7.

O., Portsmouth—School—Until July 2 by J. I. Husdon, pres. bd. educ., 810 Gallia St. Ritter & Bates, 1st Natl. Bank Bldg., archts.

O., Youngstown—School—Until June 29 by Clk. Bd. Educ. for addition to Garfield School. P. Boucherie, Stambaugh Bldg., archt.

Ind., Decatur—(Official)—High School—Until June 29 by Bd. Educ., 2-story, 70 x 160-ft. About $110,000. O. Hoffman, Studebaker Bldg., archt. Noted June 7.

Ind., Terre Haute—Theater, Store and Office—Until June 25 by J. A. Brentlinger, mgr., Bankers' and Brokers' Theatrical Assn., 1- and 2-story, 550 x 130-ft. About $85,000. A. Proskauer, 105 North St., Chicago, archt.

Kan., Ft. Scott—High School—Until June 25 by Bd. Educ. W. T. Schmitt, 1634 West 10th St., Oklahoma, archt.

Neb., Lincoln—University—Until June 25 by Bd. Regents of Nebraska University, 3-story, brick, stone, terra cotta and concrete. About $125,000. J. S. Dales, Sta. A, secy. Coolidge & Hodgdon, Corn Exchange Bank Bldg., Chicago, archts. Noted May 10.

Neb., Sterling—School—Until June 26 by Bd. Educ. Berlinghof & Davis, 414 Security Mutual Life Bldg., Lincoln, archts.

S. D., Huron—High School—Until July 10 by W. Habel, clk. independent school dist. G. C. Miller, Fullinwider & Dowling, 6 North Michigan Ave., Chicago, archts. Noted Apr. 19.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Fall River**—Store and Office—N. Yamins, 78 Bedford St., let contract 3-story, 82 x 100-ft., brick, to J. Crowe, 486 2nd St.

★**Mass., Medway**—Armory—State let contract to E. A. Peabody & Son Co., Bay State Bldg., Lawrence, $50,000.

★**N. Y., Manhasset, L. I.**—Hotel—Manhasset Bay Corp., 52 Vanderbilt Ave., New York City, let contract to Columbus Circle Constr. Co., 15 Columbus Circle, New York City, $600,000.

★**N. Y., New York**—Club—University Club let contract, 6-8 West 55th St., to M. Widlitz & Son., 30 East 42nd St.

★**N. Y., New York**—Hall, Store and Studio—Alliance Realty Co., 115 Bway., let contract to A. L. Mordecai & Son, 30 East 42nd St., $50,000.

★**N. J., Princeton** — Station — Pennsylvania R.R. let contract to Mathews Constr. Co. About $75,000. Noted May 24.

★**Pa., Conshohocton** — Club — Pennsylvania Club c/o J. Smith, let contract, 3-story, to J. B. Groff, Norristown.

★**Pa., Doylestown**—School—Natl. Farm School, 1001 Chestnut St., Phila., let contract addition to Specht & Sperry, 1215 Filbert St., Phila., $75,000. Noted June 14.

★**Pa., Erie**—High School—Bd. Educ. let contract to W. M. Sutherland, B. & O. Co., Syndicate Trust Bldg., St. Louis, Mo., $600,000.

★**Va., Richmond** — Hospital — Memorial Hospital, c/o Virginia Medical College, 11th and East Broad St., let contract addition to A. M. Walkup & Co., 746 17th St., $50,000.

★**W. Va., Morgantown**—Dormitory—University of West Virginia let contract, 3-story, 45 x 220-ft., brick, stone and terra cotta, to R. R. Kitchen, foot of Lafayette Ave., Wheeling.

★**Ind., Sheridan**—Bank and Office—Farmers Natl. Bank let contract to F. M. Hinds & Son, Frankfort.

★**Ind., Vincennes**—Bank and Office—German Natl. Bank let contract, brick and stone, to A. C. Kausler & Sons, Evansville. About $200,000. Noted May 3.

★**Ill., Chicago**—Hotel—Hotel Breakers let contract, 55th and Everett Sts., to M. Rauen, 111 West Washington St., $650,000.

★**Wis., Rice Lake**—High School—Bd. Educ. let contract to W. E. Madox, Mondovi, $50,000.

★**Ia., Cedar Rapids**—Y. M. C. A. let contract building to J. F. Leefers & Co., American Trust Bldg., $165,000.

★**Ia., Centerville**—(Official)—High School—Bd. Educ. let contract to B. S. Staley, Centerville, $116,000. Noted May 24.

★**Ia., Mason City**—Y. W. C. A. let contract building to B. L. Stratton, $60,000.

★**Kan., Ness City**—Court House—County let contract to Cuthbert & Son, Topeka, $68,800. Noted May 17.

★**Neb., York**—School—Bd. Educ. let contract 3 schools to Olson & Johnson, 508 Montana Bldg., Missoula, Mont., $142,000.

★**N. D., Fargo**—(Official)—Grade School—Bd. Educ. let contract to S. Wilson, Fargo, $69,997. Noted May 24.

★**N. D., Mayville**—Dormitory—Bd. Regents, State Normal School, let contract to T. Ostbye, Fargo, $75,000.

★**N. D., Williston**—St. Joseph's Congregation let contract to Donohue-Selover Contr. Co., 730 Globe Bldg., St. Paul, $50,000.

★**Mo., Mexico**—Academy—Mexico Military Academy let contract to Ray & Son, Louisiana, Mo., $50,000.

★**Mo., St. Louis**—Bank—American Trust Co., Bway. and Locust St., let contract to W. W. Sutherland Contr. Co., Syndicate Trust Bldg., $250,000, on percentage basis. Noted June 14.

★**Okla., Oklahoma**—Y. M. C. A. let contract building to Gross Constr. Co., 132½ West 2nd St., $200,000. Noted Apr. 5.

★**Ariz., Tucson**—See "Reinforced Concrete."

★**Ont., Trenton**—High School—School Bd. let contract to Schultz Bros., Brantford, $50,000. Noted May 10.

FEDERAL GOVERNMENT WORK

Proposed Work

Mass., Southbridge—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., rejected bids. Noted June 7.

Pa., Phila.—Caisson Gates—Bureau Yards and Docks, Navy Dept., Wash., received no bids for dry docks, at Phila. and Norfolk, Va., Navy Yards. Noted May 31.

Va., Norfolk—Caisson Gates—See "Phila., Pa."

Ala., Jasper—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., rejected bids. Supplementary proposals will soon be asked from original bidders. Noted June 7.

N. M., Raton—Post Office—J. A. Wetmore, superv. archt., treas. dept., received no bids. Noted May 17.

BIDS DESIRED

Me., Ft. Fairfield—Post Office—Until July 20 by J. A. Wetmore, superv. archt., treas. depth., Wash.

N. Y., Buffalo—Superstructure—Until July 10, by U. S. Engr. Office, Buffalo, for constructing concrete superstructure on breakwater.

N. Y., New York—Dredging—Until July 5 by U. S. Engr. Office, Room 802, Army Bldg., 39 Whitehall St., New York City, dredging in Staten Island Sound; advertised in this issue.

Pa., Phila.—Storehouse—Until June 25 by Bureau Yards and Docks (F. R. Harris, ch.), Navy Dept., Wash., for advance base storehouse.

N. C., Ft. Caswell—Intercepting Sewer—Until June 28 by Constr. Quartermaster, Ft. Caswell, about 2060-ft. 8-in. universal pipe sewer.

Miss., Vicksburg—Levee Work—Until July 11 by 3rd Mississippi River Dist., P. O. Box 404, Vicksburg; advertised in this issue.

Federal Government Work (Continued)

Tenn., Gallatin—Post Office—Until June 25 by J. A. Wetmore, superv. archt., treas. dept., Wash.; advertised in this issue.

Tenn., Memphis—Elevators, etc.—Until July 2 by Mississippi River Comm., U. S. Engr. Office, Customhouse, furnishing elevators and conveyors, concrete mixers, etc.; advertised in this issue.

Tenn., Memphis—Wire Strand, etc.—Until June 30 by Mississippi River Comm., U. S. Engr. Office, Custom House, Memphis; advertised in this issue.

Mont., St. Ignatius—Laterals—Until July 18 by U. S. Rec. Ser., St. Ignatius, for laterals on Flathead Project, located from 7- to 12-mi. north from Dixon, a station on Northern Pacific Ry. Work includes 60,000-cu.yd. excavation and 100,000 sq.ft. concrete canal lining. M. Bien, act. dir.; advertised in this issue.

Mo., St. Louis—Earthwork—Until July 2 by Secy., Mississippi River Comm., 1311 International Life Bldg., St. Louis, constructing about 190,000-cu.yd. earthwork in Muscatine Island Levee Dist. Iowa.

Cal., San Francisco—Pipe Line—Until June 25 by Bureau Yards and Docks (F. R. Harris, ch), Navy Dept., Wash., for a 6-in. flexible joint submerged pipe line at Naval Training Station.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., Boston—Storehouse—Bureau Yards and Docks, Navy Dept., Wash., received bids (a) work complete, in accordance with drawings and specifications; (b) add to net price and time stated under (a) for addition of 7th story similar in all respects to 6th; (c) deduct from net price and time stated under (a) for omission of 6th story shown on drawings; (d) deduct from net price and time stated under (a) for omission of sprinkler system, including tank, piping, valves and heads; (e) deduct from net price and time stated under (a) for omission of cold water paint; (f) deduct from net price and time stated under (a) for omission of all electric wiring; (g) work complete, for an alternative design in accordance with drawings and specifications, except that details and design of rein.-con. in building shall be in accordance with standard practice and any recognized and established building code, and if award is made under this item, before final acceptance of work test of finished structure shall be made, when directed by officer in charge in which the loading shall be 1½ times specified live loads and such loads shall cause no injurious permanent deformations; (h) add to net price and time stated under (g) for addition of 7th story, similar in all respects to 6th; (i) deduct from net price and time stated under (g) for omission of 6th story shown on drawings, from Evatt Constr. Co., 161 Devonshire St., (a) $582,999, 210 days; (b) $54,699, 30 days; (c) $48,999, 21 days; (d) $21,999, 210 days; (e) $2999, 210 days; (f) $10,999, 210 days; (g) $539,999, 210 days; (h) $51,999, 30 days; (i) $45,999, 21 days; H. P. Converse & Co., 88 Broad St., (a) $606,490, 295 days; (b) $52,20b, 30 days; (c) $47,473, no change in time; (d) $22,550, (e) $3000, (f) $9960, (g) $578,182, 295 days, (h) $48,523, 30 days; (i) $43,285, 295 days; G. A. Fuller Co., 131 State St., (a) $646,766, 184 days; (b) $60,000, 18 days; (c) $65,000, 10 days; (d) $26,000, no change in time; (e) $3200, no change in time; (f) $13,600, no change in time; (g) $617,225, 184 days; (h) $54,000, 18 days; (i) $57,000, 10 days. Noted June 7.

R. I., Newport—Power Plant—Bureau Yards and Docks, Navy Dept., Wash., will probably let contract to W. G. Cornell, 923 12th St., Wash., D. C. About $170,000. Noted June 14.

★N. Y., Buffalo—Steel Reinforcements—Lighthouse Inspector, Buffalo, let contract, for concrete base at Conneaut Light Station, to Milwaukee Bridge Co., Milwaukee, $7470.

N. Y., New York—Machine Shop—Bureau Yards and Docks received bids extension to machine shop at Navy Yard, from Post & McCord, 101 Park Ave., Conners Bros. Co., 64 West 88th St., Snare & Triest Co., 233 Bway., G. Baker Long, 340 Main St., Worcester, Mass., and J. MacArthur, 22 Ormond St., Brooklyn.

★N. J., Cape May—Aviation Station—Bureau Yards and Docks, Navy Dept., Wash., let contract to Cramp & Co., Denckla Bldg., Phila., $450,000.

Pa., Ft. Mifflin—(Phila. P. O.)—Mine Storage Building—Bureau Yards and Docks, Navy Dept., Wash., received low bids, at Naval Ammunition Depot, (a) work complete, but omitting all concrete piles and pile caps; (b) work complete, based on use of premolded rein.-con. piles; (c) work complete, as required in (b) but based on use of molded-in-place rein.-con. piles in lieu of premolded piles; (d) add to or deduct from net price and time for work under (a) for each interior bay added to or deducted from building; (e) add to or deduct from net price and time for work under (b) for one interior bay added to or deducted from building; (f) add to or deduct from net price and time for work under (c) for one interior bay added to or deducted from building; (g) deduct from or add to net price for work under (b) for each lin.ft. of concrete piling less than specified length or for each lin.ft. of concrete piling in place in excess of specified length; (h) deduct from or add to net price for work under (c) for each lin.ft. of concrete piling less than specified length or for each lin.ft. of concrete piling in place in excess of specified length; (i) deduct from net price for work complete under (a) by using galvanized sheet steel in lieu of copper excepting finish at eaves and gravel stops, from J. H. Miller, Miller Bldg., Baltimore, (a) $46,000, 190 days; (b) $58,000, 190 days; (c) $54,000, 190 days; (d) $4100; (e) $5100; (f) $4800; (g) $3; (h) $2; (i) $480; W. M. Linker Co., 831 Cherry St., Phila., (a) $46,300; (c) $54,100, 150 days; (d) $3520, 15 days; (f) $3965, 15 days; (h) $1.50; (i) $440; J. H. Weise, Omaha, Neb., (a) $53,758, 160 days; (c) $63,420, 180 days; (d) $4100, 10 days; (f) $4800, 10 days; (h) add $1.60 per ft. or deduct 90 per ft.; (i) $600. Noted May 31.

Pa., Phila.—Foundry—Bureau Yards and Docks, Navy Dept., Wash., received bids from Conners Bros. Co., 64 West 88th St., New York City, W. Moore & Co., 518 Commercial Trust Bldg., Post & McCord, 101 Park Ave., New York City, McClintic Marshall Co., 1421 Chestnut St., and McCluskey & Ball, 1620 Thompson St.

Pa., State College—(Post Office)—J. A. Wetmore, superv. archt., treas. dept., Wash., received only bid from W. H. Fissell & Co., 1328 Bway., New York City, limestone, $71,100; sandstone, $74,100. Noted May 17.

Wash., D. C.—Radio Buildings—Bureau Yards and Docks, Navy Dept., Wash., received bid only for buildings at high power radio station, El Cayey, P. R., from Hamilton & Chamber Co., 29 Bway., New York City, $86,683. Noted May 24.

Wash., D. C.—Radio Buildings—Bureau Yards and Docks, Navy Dept., received bids radio building at various points; (a) Quarters complete at Portland, Me., (b) same at Portsmouth, N. H.; (c) same at North Truro, Mass.; (d) same at Charleston, S. C.; (e) same at St. Augustine, Fla.; (f) for quarters and tower complete, at Jupiter, Fla.; (g) buildings and masts complete, at New Orleans, La.; (h) under this heading contractors bidding on work at St. Augustine, Fla., may submit proposals, based on building having same inside dimensions as shown on drawings for quarters and having exterior walls constructed of Coquina blocks or of brick, having cement stucco finish covered with Cowuina, from Charleston Engr. & Contr. Co., 58 Broad St., Charleston, S. C., (d) $4797, 45 days and $4950, 30 days; F. W. Cunningham & Sons, 437 Congress St., Portland, Me., (a) $7280, 90 days; J. Simmons Co., 102 Center St., New York City, (g), part, $27,500, 500 days; alternate, $24,500, 180 days; Newport Contr. & Engr. Co., Law Bldg., Newport News, Va., (g) $23,000, 150 days; alternate bid, cost plus 15%; W. D. Dresser, R. F. D. No. 6, South Portland, Me., (a) $7875; Pittsburgh-Des Moines Steel Co., 807 Curry Bldg., Pittsburgh, (f) $12,150, 150 days, and $11,750, 160 days; Simmons-Mayrant Co., Charleston, S. C., (d) $4169, 60 days; W. T. Hadlow, Baldwin Bldg., Jacksonville, Fla., (d) $3834, 75 days; (e) $898, 75 days, (f) $9281, 100 days; C. L. Dooley, 257 Adelphi St., Brooklyn, (a) $4800, (b) $4950, (c) $5200, 60 days; L. F. Favret, 211 Camp St., New Orleans, La., (g) $18,725, 90 days for building only, 30 days for masts; P. D. Hay, 29 B St., Charleston, S. C., (d) $3743, 75 days; Wolf & Ewing Constr. Co., 505 11th St., Miami, Fla., (f) $4721, frame building, 60 days, $6881 for tower; G. W. Brown, West Palm Beach, Fla., (f) $12,485, 60 days; W. S. Lackman, Jr., P. O. Box 784, West Palm Beach, Fla., (f) $9989, 75 days; Forgione & Romano Co., 465 Congress St., Portland, Me., (a) $5570; F. A. Day's Sons, 24 Pearl St., Provincetown, Mass., (c) $4490, 70 days; Sacco & Wood, 252 Market St., Portsmouth, N. H., (b) $4473, 80 days; T. M. McCarrel, 217 Rutledge St., Charleston, S. C., (d) **$3425, 70 days**. Noted May 24.

Va., Cape Henry—Building—U. S. Dept. Agriculture, Wash., received following bids 3-story building for Weather Bureau from, Baker & Brinkley, Dickinson Blvd., Norfolk, $27,000; J. Seay & Co., Petersburg, $27,800; W. T. Gregory, Norfolk, $28,600. Noted May 24.

Va., Petersburg—Cantonment Buildings—Rumored at War Dept. that Rhinehart & Dennis, Charlottesville, Va., will be awarded contract on cost plus percentage basis. Between 1000 and 2000 of these buildings in contract.

S. C., Charleston—Boilers—Inspector 6th Lighthouse Dist., Charleston, received bids furnishing 2 boilers of gunboat type for tender "Mangrove" from Almy Water Tube Boiler Co., 184 Allens Ave., Providence, R. I., $13,560; P. Delany & Co., Newburgh, $34,000.

Fla., Pensacola—Storehouse and Magazine Buildings—Bureau Yards and Docks, Navy Dept., Wash., received only bid for constructing from Wise Granite & Constr. Co., American Natl. Bank., $99,800, all three buildings; furnishing steel required from Milliken Bros., 111 Bway., New York City, $12,770. Noted May 31.

Fla., Pensacola—Tower—Bureau Yards and Docks., Navy Dept., Wash., received low bids constructing steel tower at Navy Aëronautic Station, from C. H. Turner, $25,260, and Penn Bridge Co., Bond Bldg., Wash., $27,983. Noted May 10.

★Fla., Sanford—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., let contract to A. Blair, Hill Bldg., Montgomery, Ala., $50,189. Noted June 14.

La., New Orleans—Towers—Lighthouse Inspector, New Orleans, received low bids, from Milwaukee Bridge Co., 1400 34th St., Milwaukee, $16,800; Stupp Bros. Bridge and Iron Co., Frisco Bldg., St. Louis, $17,200; Christopher & Simpson Iron Works, 9th and Park Ave., St. Louis, $17,640. Noted May 3.

O., Akron—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received low bids, limestone, from J. G. Wiese, 1301 City Natl. Bank, Omaha, $297,430 and W. H. Maxwell, Lake Sheland, Wash., $342,400. Noted May 17.

Tex., Denton—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., received only bid from W. D. Lovell, 1415 South East 8th St., Minneapolis, $71,400. Noted May 17.

★Okla., Altus—Post Office—J. A. Wetmore, superv. archt., treas. dept., let contract to W. D. Lovell, 1415 8th St., S. E., Minneapolis, $46,200. Noted June 14.

N. M., Garfield—Canals—U. S. Rec. Ser., El Paso, Tex., received bids on Rio Grand Project, from Knowles & Warren; Lee & Moor Contr. Co.; W. J. Harris, all of El Paso. Noted Apr. 26.

★Ariz., Yuma—Pumping Machinery—U. S. Rec. Ser., Denver, let contract, for use at Yuma Valley Drainage plant, Yuma Project, to Fairbanks-Morse Co., 900 South Wabash Ave., Chicago, $23,299. Noted May 24.

MISCELLANEOUS

Proposed Work

Creek Improvements—Binghamton, N. Y.—W. E. Weller, city engr., preparing plans creek improvements to relieve situation caused by overflow of 5 streams.

Park—Troy, N. Y.—City plans, on Oakwood Ave. A. E. Roche, city engr.

Fire Hydrants—Baltimore, Md. — See "Streets and Roads."

Hull—Akron, O.—See "Structural Steel."

Park Improvements—Cleveland, O.—City Council passed ordinance to issue $56,000 bonds to improve parks. R. Hoffman, city engr.

Unloading Device—Cleveland, O.—Until June 27 by E. Shattuck, 219 City Hall, purch. agt., for 1 50-ton unloading device for Street Dept.

Speedway, etc.—Columbus, O.—Columbus Motor Speedway & Horse Racing Co. plans combination speedway, 2 race tracks and steeplechase course. About $500,000. J. Y. Basell, chn.

Dam—Ft. Wayne, Ind.—St. Joseph River Dam & Park Assn. soon receives bids for dam on St. Joseph River. Address C. J. Getz, park supt.

Elimination of Grade Crossings—South Bend., Ind.—New York Central R.R. (Lines West of Buffalo) submitted plans to Bd. Pub. Wks. for approval, for eliminating grade crossings along line. About $1,201,800. B. S. Voorhees, Grand Central Station, New York City, engr. grade crossings.

Miscellaneous (Continued)

Levee Work—Dallas, Tex.—Dallas Co. Levee Improve. Dist. No. 2 voted $108,000 bonds for levee work.

Dam and Flume—Grangeville, Idaho—See "Reinforced Concrete."

Dock—Seattle, Wash.—See "Industrial Works."

Dock—Tacoma, Wash.—See "Reinforced Concrete."

Tunnel—Oakland, Cal.—East Bay Water Co. soon receives bids for 3½-mi. tunnel in connection with development of San Pablo Creek water supply for Oakland and vicinity.

Retaining Wall—St. John, N. B.—City soon receives bids, on Main St. About $20,000.

BIDS DESIRED

Portable Freight Conveyors—Albany, N. Y.—(Official)—Until July 13 by W. W. Wotherspoon, state supt. pub. wks., Capitol, for Terminal Contract No. 103; advertised in this issue.

Incinerator Plant—New York, N. Y.—Until June 25 (readvertised) by M. M. Marks, boro. pres., Room 2032, Municipal Bldg., for labor and materials required for installing refuse incinerator plant in Washington Market building, Fulton, West, Vesey and Washington Sts. Noted June 7.

Refrigerating Equipment—Thiells, N. Y.—(Official)—Until July 12 by Bd. Managers, Letchworth Village, 7 Wall St., New York City; advertised in this issue.

Cast Iron Lamp Stands—Bayonne, N. J.—(Official—Until June 26 by W. G. Muirheid, secy. Hudson County Park Comn., 1 Exchange Pl., Jersey City, furnishing 60 c.i. lamp standards; advertised in this issue.

Retaining Wall—Clifton, Ariz.—Until July 2 by M. Danenhauer, town clk., concrete and slag, along river.

PRICES AND CONTRACTS AWARDED

Breakwater—Hull, Mass.—Comn. on Waterways and Pub. Lands, State House, Boston, received bids, June 14, building breakwater at Gun Rock Point, Hull, requiring 17,000 tons stone from Rockport Granite Co., 31 State St., Boston, $1.87; Bay State Dredging & Contr. Co., 247 Atlantic Ave., Boston, $1.93; T. Fitzgibbon, Beverley, $2.05.

Docks—Buffalo, N. Y.—(Official)—Comr. Pub. Wks., Room No. 3, Municipal Bldg., received low bids, improving along Bird Island Pier, from Great Lakes Dredge & Dock Co., Morgan Bldg., $268,900; H. S. Kerbaugh, Inc., Morgan Bldg., $275,000; Cleveland Engr. Constr. Co., 901 Swetland Bldg., Cleveland, $296,467. Noted June 7.

★**Retaining Wall—Hoboken, N. J.**—See "Industrial Works."

★**Cement, etc.—Newton, N. J.**—(Official)—Town Comn. let contracts as follows: Sothman Corp., 40 Exchange Pl., New York City, labor; Hart, Ilift & L. S. Ilift, cement; Segman & Bogart, sand; P. Cary Co., elastite. Noted June 7.

★**Shafts—Brownsville, Pa.**—See "Reinforced Concrete."

★**Unloading Tower—Erie, Pa.**—Anchor Line, Holand St., let contract to H. L. Stevens & Co., 910 South Michigan Ave., Chicago, $100,000.

★**Docks—Jacksonville, Fla.**—(Official)—Clyde Steamship Co., foot of Market St., let contract to W. P. Richardson & Co., Duval Bldg., Jacksonville, $150,000. Noted May 24.

★**Grandstand—North Yakima, Wash.**—State Fair Assn. let contract to J. H. Corbett, North Yakima, $18,610. Noted May 17.

★**Jetty—Newport Beach, Cal.**—City let contract rubble mound jetty at entrance to bay, about 58,400 tons rock, to W. Ledbetter Co., 651 Pacific Electric Bldg., Los Angeles, $124,700. Noted May 17.

Dam—San Rafael, Cal.—Marin Municipal Water Dist. received low bids as follows: H. A. Klyce, Sheldon Bldg., San Francisco, $172,890; Leonard & Hansen, $211,626; Duncanson-Harrelson Co., 7th Ave., Merritt, $235,861.

BUILDING OPERATIONS FOR MAY

Following is a list of contracts awarded by the F. W. Dodge Co. for:

New York, New England, New Jersey, Pennsylvania, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Indiana, Iowa, Wisconsin, Michigan, Minnesota, North and South Dakota, and portions of Missouri and eastern Kansas:

Contracts awarded Jan. 1 to June 1:

1917	$624,861,000
1916	456,101,500
1915	321,241,100
1914	300,721,000
1913	379,001,500
1912	327,015,000
1911	339,167,813
1910	366,037,505

NEW YORK AND NORTHERN NEW JERSEY

Contracts awarded Jan. 1 to June 1:

1917	$127,894,000
1916	59,526,500
1915	59,493,500
1914	56,036,000
1913	134,307,500
1912	98,730,000
1911	100,787,000
1910	110,603,000

For the larger territory covered contracts awarded amount to $157,563,000 against $148,513,000 for April and $132,744,000 for March, which shows a steady increase in building construction. For the smaller territory of New York and Northern New Jersey contracts awarded for May amount to $32,419,000 against $26,823,000 for April and $26,424,000 for March or an increase of about $6,000,000.

In the sub-division of this larger territory we find that in the New England states from January to June, 1916, there were about $82,144,000 worth of contracts awarded against $79,200,000 in 1917, or a loss during this year of over $3,000,000. In the territory around Philadelphia, Baltimore and Washington the contracts awarded this year amount to $76,000,000 against $68,000,000 last year. Around Pittsburgh they amount to $80,000,000 against $58,000,000,000 last year and in the Central West the 1917 contracts amount to $244,000,000 against $155,000,000, showing that the biggest increase is in that section. Throughout the Northwest 1917 shows contracts awarded amounting to $17,000,000 against contracts of 1916 of $31,000,000, or a loss of $14,000,000 during this year. Summed up, these figures show that the Central West and New York and New Jersey show the largest increase, with small gains in the Eastern Atlantic states and a large loss throughout the Northwest.

The "New Way" Motor Co., Lansing, Mich., have added to the list of service stations the following: Hubbard & Floyd, New York City, C. T. Burchfield, Philadelphia, and French & Allan, Chicago. These concerns will be more than pleased to see any "New Way" owners and operators and assist them in every way possible.

CANTONMENT BUILDINGS

Following is list of cantonment buildings which we understand have been awarded by the U. S. Government: Ayer, Mass.; F. T. Ley & Co., Main St., Springfield, Mass.; American, Lake, Wash., Hurley, Mason & Co., Perkins Bldg., Tacoma, Wash.; Wrightstown, N. J., Irwin & Leighton, 126 North 12th St., Phila., Pa.; Atlanta, Ga.; Arthur Tufts, 7 West Ellis St., Atlanta; Columbia, S. C., Hardaway Contr. Co., 14½ 11th St., Columbus, Ga.; Battle Creek, Mich., Porter Bros., Detroit, Mich.; Rockford, Ill., Bates & Rogers Contr. Co., 37 West Van Buren St., Chicago, Ill.; aviation field at Rantoul, Ill., English Bros., 55 North Walnut St., Champaign, Ill.

American Capital to Build Peruvian Railroad—A railway across Peru, which will cut through the Andes and strike into the fertile country at the headwaters of the Amazon River, is projected to be built by American capital, the financial arrangements having recently been completed by Senator Henrique C. Zegarra, of Lima, and J. W. Flannagan, of Houston, Tex. The Peruvian Government has granted concessions all along the route, which traverses a rich agricultural, timber and mining country. Work is to begin this summer. The railway will be about 400 mi. long, running from the Pacific port of Palta, eastward to a point on the Maranon River (Amazon), where it is navigable by seagoing vessels. This railway is intended to afford rapid and adequate transportation for the rubber of western Brazil. It is expected that the construction will occupy three years, but operation will commence on the railway just as soon as the first hundred miles is completed.

W. T. Clark has resigned as manager of the Traylor Eng. & Mfg. Co., Allentown, Pa., and has accepted the position of manager of the Moline Plow Wks., Moline, Ill.

A. F. Ehrbar has been appointed general manager of the Duplex Mfg. & Fdry. Co., Elyria, O.

E. E. Taylor has been appointed advertising manager for the Acme Harvesting Machine Co., of Peoria, Ill.

Certainteed Products Co. will open a branch distributing office at 10th and Flanders Sts., Portland, Ore.

Elzner & Anderson, archts., have moved their offices to the Citizens' Bank Bldg., 4th and Main Sts., Cincinnati.

General Electric Co. has moved its New York offices to the Equitable Bldg., 120 Broadway.

Martini & Huneke Co. of America has moved its offices from the Woolworth Bldg., New York City, to 1201 Hudson St., Hoboken, N. J.

Wisconsin Bridge and Iron Co. announces the removal of its offices from 605 Colby-Abbot Bldg., Milwaukee, Wis., to its plant at North Milwaukee.

Platt Iron Works have moved their offices to Room 705, 160 Bway., New York City.

F. C. Wilcox and **H. B. Franklin** of the Foote Concrete Machinery Co., Chicago, have organized the firm of Wilcox, Franklin & Co., with headquarters at 1324 South Michigan Ave., Chicago, to handle Sterling motor trucks and Troy trailers in Illinois and portions of Indiana and Iowa. A day-and-night service department will be operated in conjunction with their showroom.

Delaware River Dredging Co., Gloucester City, N. J., has been incorporated with a capital of $1,000,000 to engage in dredging work. The officials of the company, all connected with the Pennsylvania Shipbuilding Co., Land Title Bldg., Philadelphia, Pa., are: George S. Hoell, Pres.; Elmer J. Shinn, Vice Pres. and Treas.; and L. E. Norbom, Secy.

George W. Pawling & Co., Camden, N. J., have been incorporated with capital of $25,000 to engage in a general contracting business. George Pawling, Louis J. Bergdoll and Walter D. Stewart, all of Philadelphia, are the incorporators.

TRADE CATALOGS

Bonanza Cement Tile Roofing. American Cement Tile Manufacturing Co. Oliver Bldg., Pittsburgh, Penn. Data sheets (second edition). 55 pp.; 5½x8 in.; illustrated. Handbook giving sizes and shapes of cement tile for roofing and a number of plates showing layout of typical roof installations.

"Progress in Water-Works Pumps." De Laval Steam Turbine Co., Trenton, N. J. This is a treatise on the development and advantages of steam-turbine-driven centrifugal pumps for city water supply and contains descriptions of installations in different cities.

"On the Trail of Byers Pipe." A. M. Byers Co., Pittsburgh, Penn. Booklet. Pp. 40; 4x6 in.; illustrated. This is a record of the service given by Byers pipe in plumbing, heating and power stations installed from 25 to 40 years ago.

Duriron Pipe, Fittings, Valves, Centrifugal Pumps, etc. Duriron Castings Co., Dayton, Ohio. Bulletin No. 100. Pp. 24; 8x10½ in.; illustrated.

Secondhand Equipment Contractors', Electrical, Steam, Hydraulic, Gas. MacGovern & Co., 114 Liberty St., New York. List of equipment on hand. Pp. 58; 3½x8½ in.; illustrated.

Elevating, Conveying, Crushing, Screening, Power Transmission Machinery. The Jeffrey Mfg. Co., Columbus, Ohio. General Catalog No. 84. Pp. 352; 6x9 in.; illustrated.

United States Motor Truck Company—Catalog 17. Thirty-two pages of pictures and descriptions.

Portable Pneumatic Compression and Hammer Riveting Machines. John F. Allen Co., 372 Gerard Ave., New York. Catalog; pp. 40; 6 x 9 in.; illustrated.